

FINAL
Phase II Environmental Site Assessment Report

**Former Naval Training Center Bainbridge
Port Deposit, MD**

AOC 28 (Water Treatment Plant -Building 693)

Contract: EP-W-07-094

Task Award #0011 and #0012

Prepared for:

U.S. Environmental Protection Agency
Region 3
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October 2010

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October 2010

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Date

27 October 2010

Date

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Task Order Project Officer
U.S. Environmental Protection Agency

10/28/10

Date

This report presents the results of the Phase II ESA activities conducted at Area of Concern (AOC) 28 (Water Treatment Plant -Building 693), which is located in Development Priority Area 2 of the Naval Training Center – Bainbridge (NTCB) property. The NTCB property (the “Site”) is located in Port Deposit, Maryland 21904. AOC 28 is approximately 8,750 square feet (sf) in size. This reported is presented as Attachment 8 of the Former Naval Training Center Bainbridge Phase II Environmental Site Assessment Report.

BACKGROUND

In April 1997, five capacitors (four leaking) were discovered in the lower mechanical room of Building 693 (Water Treatment Plant) (Jacobs, 2006/2007). Samples of the leaked material contained 580,000 to 880,000 milligrams per kilogram (mg/kg) total polychlorinated biphenyls (PCBs), and a sediment sample collected from the floor below the non-leaking fifth capacitor was reported with 210 mg/kg total PCBs. It was known that this room would periodically flood with roughly 3 feet (ft) of water, and that all wall areas affected by PCBs were either at or below the visible high water mark that stained the walls (approximately 3½ feet above the lower floor). Sampling and analyses were performed in the lower mechanical room, and results indicated that the concrete walls and floors were impacted with PCBs. The floor drains were not impacted; however, some of the sediments within the floor drains were impacted by PCBs.

Sample results indicated that certain, well-defined areas of the concrete floors and walls were impacted with PCBs, possibly up to the ½-in. thick concrete sampling depth. Sample results also indicated that the floors and walls were not impacted by PCB everywhere. Hot-spots on the concrete walls and floor were repeatedly cleaned with surfactant, rinsed with pressurized steam, sampled by drilling out concrete dust, and tested for PCB concentration with field kits until the cleanup criteria had been achieved. Two small floor areas (each approximately 3-ft by 3-ft in size) that failed to meet the cleanup criteria using the surfactant cleaning approach were chiseled out approximately 3-in. deep with a jackhammer. Concrete confirmation samples from these two areas showed that the cleanup criteria (10 mg/kg) had been achieved.

During this work, several wall-mounted liquid mercury switches were found along with free liquid mercury on the floor of the lower mechanical room. The mercury switches were immediately removed and packaged for disposal. Approximately four fluid ounces of liquid mercury was removed from the floor and packaged for disposal.

During this work, over 300,000 gallons of water were pumped from the lower mechanical room in order to allow the PCB cleaning work to occur. The water was treated and discharged into a flat, bermed infiltration area on the northwest side of nearby Building 691. The exact location of the bermed infiltration area with respect to Building 691 was not noted or shown in the OHM report. MDE set the water discharge limit at 0.5 part per billion (ppb) total PCBs based on a daily grab sample of the treated discharge. A breakthrough of the containment occurred during treatment and some amount of PCB impacted water infiltrated into soils near Building 691 before the breakthrough problem was identified.

To remediate the soils in this area, approximately 15 cubic yards of impacted soil were removed to a depth of 1-ft from a 400 sf area, and disposed off-site as non-hazardous waste. Soils were excavated until confirmation samples were below 1.2 mg/kg. The United States Environmental Protection Agency (USEPA) issued a letter dated 13 January 2000 which stated cleanup standards were achieved inside of Building 693 and that no further actions were required at AOC 28.

Site restoration included the installation of a grass lined drainage swale to allow water to flow from the remediated floor of the lower Water Treatment Plant mechanical room towards the reservoir.

In addition to the above, one 550-gallon steel underground storage tank (UST), likely containing fuel oil, was removed in August 1998 (OHM, 1999). The UST was discovered alongside Building 693 approximately 7-ft below grade while investigating the drainage piping system. During removal of the UST, a slight sheen was observed on the water in the excavation. All water from the excavation was contained, collected and pumped through an activated carbon/organoclay treatment system. Total Petroleum Hydrocarbons-Gasoline Range Organics (TPH-GRO) and TPH-Diesel Range Organics (TPH-DRO) ranged from 264 to 1,870 ppm during initial sampling after the tank was removed. Additional excavation of soil occurred until the remaining soils were reported with less than 14.6 ppm TPH-GRO and TPH-DRO. Approximately 161 tons of TPH impacted soil were excavated and disposed off base. The location of the UST in relation to the building was not noted in the OHM report; however a photograph of the former tank location was included in the report appendices.

WORK PERFORMED

Sample grid point locations were identified based on a previous AOC figure (EA 1999) which highlighted the former water treatment plan building (#693) associated with this AOC, review of historical aerial photographs dated 1959, 1970, and 1975, 1981, 1987, 1998, 1999, and 2005 as provided by Environmental Data Resources, Inc. (EDR), and review of a 2008 Axis Geospatial, LLC aerial photograph on which Building 693 and the adjacent building 691 can be seen.

Samples were collected on 18-21 May 2010. As part of the original planning process for this AOC, sample grid points were laid out a 50 ft grid spacing for the area between building 693 and the reservoir, and the area to the northwest of building 691. Two sample locations were designated for the removed UST area, and four samples locations were designated for reservoir. In accordance with the USEPA approved Former Naval Training Center Bainbridge FSP dated April 2010, samples were collected from the following grid/sample points and depths:

Area northwest of Building 691, targeting suspected bermed infiltration area:

- AOC-28-1 (0-1 ft depth)
- AOC-28-2 (0-1 ft depth)
- AOC-28-3 (0-1 ft depth)
- AOC-28-4 (0-1 ft depth)
- AOC-28-5 (0-1 ft depth)
- AOC-28-6 (0-1 ft depth)

- AOC-28-7 (0-1 ft depth)
- AOC-28-8 (0-1 ft depth)
- AOC-28-9 (0-1 ft depth)
- AOC-28-10 (0-1 ft depth)
- AOC-28-11 (0-1 ft depth)
- AOC-28-12 (0-1 ft depth)
- AOC-28-13 (0-1 ft depth)
- AOC-28-14 (0-1 ft depth)
- AOC-28-15 (0-1 ft depth)
- AOC-28-16 (0-1 ft depth)
- AOC-28-17 (0-1 ft depth)

Area downgradient of Water Treatment Plant (Building 693), between building and reservoir:

- AOC-28-18 (0-1 ft depth)
- AOC-28-19 (0-1 ft depth)
- AOC-28-20 (0-1 ft depth)
- AOC-28-21 (0-1 ft depth)
- AOC-28-22 (0-1 ft depth)
- AOC-28-23 (0-1 ft depth)
- AOC-28-24 (0-1 ft depth)
- AOC-28-25 (0-1 ft depth)
- AOC-28-26 (0-1 ft depth)
- AOC-28-27 (0-1 ft depth)
- AOC-28-28 (0-1 ft depth)
- AOC-28-29 (0-1 ft depth)
- AOC-28-30 (0-1 ft depth)
- AOC-28-31 (0-1 ft depth)
- AOC-28-32 (0-1 ft depth)
- AOC-28-33 (0-1 ft depth)
- AOC-28-34 (0-1 ft depth)
- AOC-28-35 (0-1 ft depth)

UST area:

- AOC-28-UST-01 (10-12 ft depth)
- AOC-28-UST-02 (10-12 ft depth)

Reservoir – northeast, southeast, southwest, and northwest sides:

- AOC-28-SW-NE (surface water and sediment)
- AOC-28-SED-NE (surface water and sediment)
- AOC-28-SW-SE (surface water and sediment)
- AOC-28-SED-SE (surface water and sediment)
- AOC-28-SW-SW (surface water and sediment)

- AOC-28-SED-SW (surface water and sediment)
- AOC-28-SW-NW (surface water and sediment)
- AOC-28-SED-NW (surface water and sediment)

Prior to initiation of sampling effort, brush clearing was performed in the soil sampling areas. In addition, layout of the soil sample grid collection pattern was also conducted at this time using a global positioning system (GPS) to locate and flag the sample locations. Prior to sampling, the local utility marking service (MISS Utility) was also contacted to perform municipal utility mark-out.

Soil samples from the area northwest of Building 691, and the area between water treatment plant and reservoir, were collected using a hand Geoprobe® tool which was decontaminated between sample locations.

Soil samples for the UST area were collected using a track equipped Direct-Push Technology (DPT) unit. Each boring was advanced by a hydraulically driven 4-ft long, stainless-steel barrel sampler (2-inch interior diameter) lined with a new, dedicated clean plastic liner for each 4-ft interval. Borings were extended to a 2-ft depth.

Site lithology and characterization information were recorded. Groundwater was not encountered in any of the borings. Samples and soil cores were screened visually and by a photoionization detector (PID) for the potential presence of VOCs. The results of the field screening were recorded by field personnel on soil boring logs using the Unified Soil Classification System (USCS). Visual observations did not identify any visual evidence of impact (e.g., soil staining), and no PID readings above background levels were identified.

Upon retrieval from the sampler, the acetate liner was cut to expose the entire length of the core for the soil samples. Prior to homogenization, aliquots for VOC analysis, if applicable, were collected first prior to homogenization using a EnCore® sampler following USEPA Method SW5035. The soil for each target interval was placed into a Ziploc bag and homogenized. Where duplicates and/or matrix spike/matrix spike replicates were collected, enough soil for both the discrete sample and the quality control samples were homogenized together. Following homogenization, soils were placed into samples jars as required by the analytical method. Unused portions of the soil cores were returned to the boreholes. The deeper subsurface borings for the UST area were also filled to grade with bentonite.

Surface water samples were collected first from each location, followed by the sediment sample. In-situ measurement for pH, dissolved oxygen (DO), oxidation reduction potential (ORP), turbidity and temperature were made using a YSI meter prior to surface water sample collection. Surface water samples were collected by dipping a laboratory-cleaned, glass jar just below the surface of the water. To reduce potential volatilization of VOCs, the pre-preserved laboratory bottles for VOC analysis were filled to 7/8th full and the remainder filled from a dedicated glass dipping jar.

The following table presents the water quality readings recorded with the YSI:

Sample ID	pH	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Temperature (°C)
AOC-28-SW-NE	6.74	12.77	121.2	27.0	14.24
AOC-28-SW-SE	7.04	8.09	118.6	15.9	14.81
AOC-28-SW-NW	7.12	6.06	114.9	18.2	15.44
AOC-28-SW-SW	6.55	5.22	100.4	28.6	14.09

mg/L = Milligram/Liter

m/V = millivolt

NTU = Nephelometric Turbidity Units

°C = Degrees Celsius

For sediment sampling, grab samples were collected using dedicated plastic scoops at each location. Aliquots for VOC analysis were collected using a EnCore® sampler. For all other analyses, sediment was placed in a Ziploc bag and homogenized prior to distribution into required containers.

A total of 37 discrete and four duplicate soil samples were collected for laboratory analysis, a total of four discrete and one duplicate surface water samples were collected for laboratory analysis, and a total of four discrete and one duplicate sediment samples were collected for laboratory analysis.

Samples were analyzed for the following:

Area northwest of Building 691, targeting suspected bermed infiltration area

- PCBs via USEPA Method 8082A
- Mercury via USEPA Method 6020A

Area downgradient of Water Treatment Plant (Building 693), between building and reservoir

- PCBs via USEPA Method 8082A
- Mercury via USEPA Method 6020A

UST area

- TPH-DRO via USEPA Method 8015C
- TPH-GRO via USEPA Method 8015C
- VOCs via USEPA Method 8260B

Reservoir; northeast, southeast, southwest, and northwest sides:

- VOCs via USEPA Method 8260B
- SVOCs via USEPA Method 8270C
- PCBs via USEPA Method 6020A
- Priority Pollutant List (PPL) Metals via USEPA Method 6020A
- TPH-DRO via USEPA Method 8015C
- TPH-GRO via USEPA Method 8015C
- Pesticides via USEPA Method 8081B

Samples were placed on ice and delivered to Phase Separation Science, Inc. (Phase) in Catonsville, Maryland for analysis. Laboratory analysis was performed with low detection limits so that comparison could be conducted against the MDE Cleanup Standards for Soil and Groundwater (Update No. 2.1) dated June 2008. Laboratory analysis was performed with low detection limits so that comparison could be conducted against the MDE Numerical Criteria for Toxic Substances in Surface Waters, Drinking Water and Organism standards, dated 2007.

A figure showing the sample locations is included in Attachment A. A summary Table of the laboratory analytical results is included in Attachment B, and laboratory results provided by Phase are included in Attachment C.

RESULTS

Area northwest of Building 691; Targeting suspected bermed infiltration area:

PCBs: No PCBs were reported above the laboratory reporting limits.

Mercury: Since no speciation of mercury was performed, the sample results were compared against both the mercury (inorganic/Mercuric Dichloride) and mercury (element) MDE Soil Cleanup Standards. Although no mercury was reported above the applicable mercury (inorganic/Mercuric Dichloride) MDE Residential Soil Cleanup Standard of 2.3 mg/kg, the following samples were reported with mercury at or above the applicable mercury (element) MDE Residential Soil Cleanup Standard of 0.09 mg/kg:

- AOC-28-19: Mercury at 0.35 mg/kg
- AOC-28-23: Mercury at 0.22 mg/kg
- AOC-28-24: Mercury at 1.20 mg/kg
- AOC-28-26: Mercury at 0.15 mg/kg
- AOC-28-28: Mercury at 0.15 mg/kg

None of the remaining samples were reported with concentrations of mercury at or above the applicable cleanup standards.

Area downgradient of Water Treatment Plant (Building 693), between building and reservoir:

PCBs: No PCBs were reported above the laboratory reporting limits.

Mercury: Since no speciation of mercury was performed, the sample results were compared against both the mercury (inorganic/Mercuric Dichloride) and mercury (element) MDE Soil Cleanup Standards. Although no mercury was reported above the applicable mercury (inorganic/Mercuric Dichloride) MDE Residential Soil Cleanup Standard of 2.3 mg/kg, the following samples were reported with mercury at or above the applicable mercury (element) MDE Residential Soil Cleanup Standard of 0.09 mg/kg:

- AOC-28-1: Mercury at 0.13 mg/kg
- AOC-28-02 MS/MSD: Mercury at 0.11 mg/kg

- AOC-28-4: 0.14 mg/kg mercury
- AOC-28-5 MS/MSD (and its duplicate sample DUP-AOC-28-01): Mercury at 0.10 mg/kg (0.14 mg/kg in duplicate sample)
- AOC-28-6 (and its duplicate sample DUP-AOC-28-03): Mercury at 0.10 mg/kg (0.10 mg/kg in duplicate sample)
- AOC-28-11 (and its duplicate sample DUP-AOC-28-04): Mercury at 0.09 mg/kg (0.09 mg/kg in duplicate sample)
- AOC-28-16: Mercury at 0.10 mg/kg

None of the remaining samples were reported with concentrations of mercury at or above the applicable cleanup standards.

UST area:

No VOC, TPH-DRO, or TPH-GRO were reported above the laboratory reporting limits.

Surface water – reservoir:

Metals: Arsenic was reported in all four discrete surface water samples and the duplicate surface water sample at concentrations ranging from 0.7 to 0.8 micrograms per liter ($\mu\text{g/L}$) which are above the MDE Numerical Criteria for Toxic Substances in Surface Waters, Drinking Water and Organism standard of 0.18 $\mu\text{g/L}$. Thallium was reported in sample AOC-28-SW-SW MS/MSD at a concentration of 0.5 $\mu\text{g/L}$ which is above the MDE Numerical Criteria for Toxic Substances in Surface Waters, Drinking Water and Organism standard of 0.24 $\mu\text{g/L}$. No additional surface water samples were reported with concentrations of thallium at or above the laboratory reporting limit. None of the surface water samples were reported with concentrations of chromium (total), copper, or nickel at or above the MDE Numerical Criteria for Toxic Substances in Surface Waters, Drinking Water and Organism standards. No other metals were reported at or above the laboratory reporting limits.

Pesticides, PCBs, VOCs, SVOCs, TPH-DRO, and TPH-GRO: No Pesticides, PCBs, VOCs, SVOCs, TPH-DRO, or TPH-GRO were reported above the laboratory reporting limits.

Sediment – reservoir:

Metals: One sample, AOC-28-SED-SW MS/MSD was reported with a metal (chromium [total]) concentration (130 mg/kg) which is above the MDE Residential Soil Cleanup Standard (23 mg/kg). None of the remaining samples were reported with concentrations of chromium (total) at or above the MDE Residential Soil Cleanup Standard. None of the samples were reported with concentrations of arsenic, copper, lead, or nickel at or above the MDE Residential Soil Cleanup Standards. No other metals were reported above the laboratory reporting limits.

Pesticides, PCBs, VOCs, SVOCs, TPH-DRO, and TPH-GRO: No Pesticides, PCBs, VOCs, SVOCs, TPH-DRO, or TPH-GRO were reported above the laboratory reporting limits.

DATA VALIDATION:

Based on the results of data validation performed as part of this Phase II ESA (Section B.4 of the Former Naval Training Center Bainbridge Phase II Environmental Site Assessment Report), all data associated with this AOC are acceptable for their intended use with the exception of the following samples/constituents which were rejected by the validator:

- Acetone, 2-butone, and 4-methyl-2-pentanone results for the following samples due to unacceptable laboratory calibration values:
 - AOC-28-SW-NE; AOC-28-SW-SE; AOC-28-SW-SW MS/MSD; AOC-28-SW-NW; and DUP-AOC-28-SW-01
- 2-butone and 4-methyl-2-pentanone results for the following samples due to unacceptable laboratory calibration values:
 - AOC-28-SED-NE; AOC-28-SED-SE; AOC-28-SED-SW MS/MSD; AOC-28-SED-NW; AOC-28-UST-01; AOC-28-UST-02; and DUP-SED-01
- The PCB results for the following sample were rejected due to unacceptable surrogate recoveries:
 - AOC-28-SW-SE

CONCLUSIONS:

Area northwest of Building 691; Targeting suspected bermed infiltration area; and area downgradient of Water Treatment Plant (Building 693), between building and reservoir:

No PCBs were reported above the MDE Residential Soil Cleanup Standards, and no mercury was reported above the mercury (inorganic/Mercuric Dichloride) MDE Residential Soil Cleanup Standard. However, 12 of the 35 grid points were reported with mercury above the mercury (element) MDE Soil Cleanup Standard.

Based on this information, it appears as though the discharges of water from the water treatment plant building did not impact soils between the building and the reservoir with PCB concentrations above the MDE Residential Soil Cleanup Standards, nor did the placement of water during the U.S. Navy remedial actions in the bermed infiltration area on the northwest side of nearby Building 691. However, the water discharged from the water treatment plan and the placement of water in the bermed infiltration area may have introduced mercury into site soils.

UST area:

No VOCs, TPH-DRO, or TPH-GRO were reported above the laboratory reporting limits. Therefore, the previous UST removal activities performed by the U.S. Navy appear to have removed any residual contamination associated with the former presence of the UST.

Reservoir:

No metals (other than arsenic and thallium), pesticides, PCBs, VOCs, SVOCs, TPH-DRO, or TPH-GRO were reported in surface water samples at or above the MDE Numerical Criteria for Toxic Substances in Surface Waters, Drinking Water and Organism standards. Arsenic was reported in all four discrete surface water samples and the duplicate surface water sample at concentrations ranging from 0.7 to 0.8 µg/L which are above the MDE Numerical Criteria for Toxic Substances in Surface Waters, Drinking Water and Organism standard of 0.18 µg/L. Thallium was reported in sample AOC-28-SW-SW MS/MSD at a concentration of 0.5 µg/L which is above the MDE Numerical Criteria for Toxic Substances in Surface Waters, Drinking Water and Organism standard of 0.24 µg/L. These elevated detections of arsenic and thallium above the MDE Numerical Criteria for Toxic Substances in Surface Waters, Drinking Water and Organism standards are suspected to be associated with surface water run-off from the adjacent land surface, and cannot be attributed to one or more specific activities associated with the former use of the site as a Naval Training Base.

No metals (other than chromium [total] in one sample), pesticides, PCBs, VOCs, SVOCs, TPH-DRO, or TPH-GRO were reported at or above the laboratory reporting limits in sediment samples collected from the reservoir. Sample AOC-28-SED-SW MS/MSD was reported with a chromium (total) concentration of 130 mg/kg which is above the MDE Residential Soil Cleanup Standard of 23 mg/kg. This elevated detection of chromium (total) above the MDE Residential Soil Cleanup Standard is suspected to be associated with surface water run-off from the adjacent land surface, and cannot be attributed to one or more specific activities or releases associated with AOC 28.

Attachments:

- Attachment A: Figure
- Attachment B: Table
- Attachment C: Laboratory Analytical Results

Attachment A
Figure

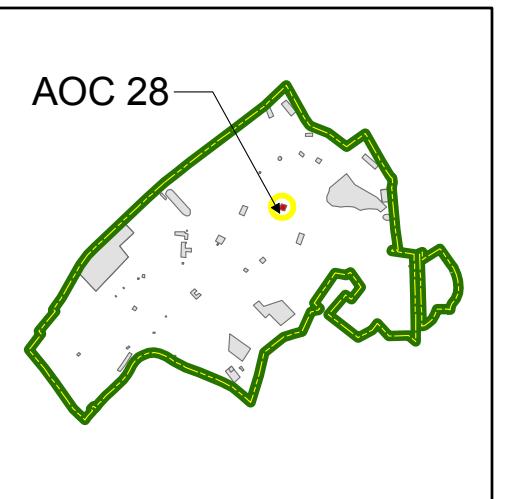


Figure 1
Area of Concern 28
(Water Treatment Plant)
Sampling Design

Naval Training Center Bainbridge
Port Deposit, Maryland



0 10 20 30 40

Meters

0 25 50 75 100

Feet



Legend

- Property Boundary
- Area of Concern
- 50 ft Grid
- Sample Location
- Surface Water/Sediment Location

Source: Axis Geospatial LLC, 2008
Projection: NAD 1983 Maryland StatePlane (ft)

August, 2010

Attachment B
Tables

NTCB AOC 28 (Water Treatment Plant) Soil Mercury and PCB Soil Sample Results

Date Sample Collected:				5/20/2010	5/20/2010	5/20/2010	5/20/2010	5/20/2010	5/20/2010	5/20/2010	5/20/2010	5/20/2010	5/20/2010				
Sample Number				AOC-28-1	AOC-28-02 MS/MSD	AOC-28-3	AOC-28-04	AOC-28-05 MS/MSD	DUP-AOC-28-01 (dup of AOC-28-5)	AOC-28-06	DUP-AOC-28-03 (dup of AOC-28-6)	AOC-28-07	AOC-28-08	AOC-28-09			
Sample Depth				0-1 ft	0-1 ft	0-1 ft	0-1 ft	0-1 ft	0-1 ft	0-1 ft	0-1 ft	0-1 ft	0-1 ft				
Matrix				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil				
Metals Lab Results - mg/kg (or ppm)																	
Analyte	MDE Residential Soil Cleanup Standard (mg/kg)	MDE Non-Residential Soil Cleanup Standard (mg/kg)	MDE Anticipated Typical Concentration in Soils (Eastern MD)	0.09	0.09	0.09	0.13	0.11 (j)	0.04 (j)	0.14	0.10 (j)	0.14	0.10	0.10 (j)	0.07 (j)	ND	ND
Mercury (element)	0.09	0.09	0.09	0.13	0.11 (j)	0.04 (j)	0.14	0.10 (j)	0.14	0.10	0.10 (j)	0.07 (j)	ND	ND			
Mercury (inorganic/Mercuric Dichloride)	2.3	31	0.51	0.13	0.11 (j)	0.04 (j)	0.14	0.10 (j)	0.14	0.10	0.10 (j)	0.07 (j)	ND	ND			
PCB Lab Results - mg/kg (or ppm)																	
Analyte	MDE Residential Soil Cleanup Standard (mg/kg)	MDE Non-Residential Soil Cleanup Standard (mg/kg)	MDE Anticipated Typical Concentration in Soils (Eastern MD)	0.55	41	--	ND	ND	ND(uj)	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1016	0.55	41	--	ND	ND	ND(uj)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1221	0.32	1.4	--	ND	ND	ND(uj)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1232	0.32	1.4	--	ND	ND	ND(uj)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1242	0.32	1.4	--	ND	ND	ND(uj)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1248	0.32	1.4	--	ND	ND	ND(uj)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1254	0.32	1.4	--	ND	ND	ND(uj)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1260	0.32	1.4	--	ND	ND	ND(uj)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

ND = Not Reported By Laboratory Above Reporting Limit

Maryland Department of the Environment (MDE) Cleanup Standards for

Soil and Groundwater, June 2008. Interim Final Guidance (update No.2.1).

(j) Lab Estimate Below Calibration Curve

mg/kg = milligram per kilogram

(j), (uj) see validation results

ppm = part per million

ft = foot/feet

Indicates Result At or Above MDE Residential Cleanup Standard

NTCB AOC 28 (Water Treatment Plant) Soil Mercury and PCB Soil Sample Results

Date Sample Collected:				5/20/2010	5/20/2010	5/20/2010	5/20/2010	5/20/2010	5/20/2010	5/20/2010	5/20/2010	5/20/2010	5/20/2010	5/20/2010	5/18/2010
Sample Number				AOC-28-10	AOC-28-11	DUP-AOC-28-04 (dup of AOC-28-11)	AOC-28-12	AOC-28-13	DUP-AOC-28-02 (dup of AOC-28-13)	AOC-28-14	AOC-28-15	AOC-28-16	AOC-28-17	AOC-28-18	AOC-28-19
Sample Depth				0-1 ft	0-1 ft	0-1 ft	0-1 ft	0-1 ft	0-1 ft	0-1 ft	0-1 ft	0-1 ft	0-1 ft	0-1 ft	0-1 ft
Matrix				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Metals Lab Results - mg/kg (or ppm)															
Analyte	MDE Residential Soil Cleanup Standard (mg/kg)	MDE Non-Residential Soil Cleanup Standard (mg/kg)	MDE Anticipated Typical Concentration in Soils (Eastern MD)	ND	0.09 (j)	0.09 (j)	ND	0.08 (j)	ND	ND	ND	0.10 (j)	ND	0.06 (j)	0.35(j)
Mercury (element)	0.09	0.09	0.09	ND	0.09 (j)	0.09 (j)	ND	0.08 (j)	ND	ND	ND	0.10 (j)	ND	0.06 (j)	0.35
Mercury (inorganic/Mercuric Dichloride)	2.3	31	0.51	ND	0.09 (j)	0.09 (j)	ND	0.08 (j)	ND	ND	ND	0.10 (j)	ND	0.06 (j)	0.35
PCB Lab Results - mg/kg (or ppm)															
Analyte	MDE Residential Soil Cleanup Standard (mg/kg)	MDE Non-Residential Soil Cleanup Standard (mg/kg)	MDE Anticipated Typical Concentration in Soils (Eastern MD)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1016	0.55	41	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1221	0.32	1.4	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1232	0.32	1.4	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1242	0.32	1.4	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1248	0.32	1.4	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1254	0.32	1.4	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1260	0.32	1.4	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

ND = Not Reported By Laboratory Above Reporting Limit

Maryland Department of the Environment (MDE) Cleanup Standards for

Soil and Groundwater, June 2008. Interim Final Guidance (update No.2.1).

(j) Lab Estimate Below Calibration Curve

mg/kg = milligram per kilogram

(j), (uj) see validation results

ppm = part per million

ft = foot/feet

Indicates Result At or Above MDE Residential Cleanup Standard

NTCB AOC 28 (Water Treatment Plant) Soil Mercury and PCB Soil Sample Results

Date Sample Collected:				5/18/2010	5/20/2010	5/20/2010	5/20/2010	5/20/2010	5/20/2010	5/20/2010	5/18/2010	5/18/2010	5/18/2010	5/20/2010	5/20/2010	5/20/2010	
Sample Number:				AOC-28-20	AOC-28-21	AOC-28-22	AOC-28-23	AOC-28-24	AOC-28-25	AOC-28-26	AOC-28-27 MS/MSD	AOC-28-28	AOC-28-29	AOC-28-30	AOC-28-31	AOC-28-32	AOC-28-33
Sample Depth:				0-1 ft	0-1 ft	0-1 ft	0-1 ft	0-1 ft	0-1 ft	0-1 ft	0-1 ft	0-1 ft	0-1 ft	0-1 ft	0-1 ft	0-1 ft	0-1 ft
Matrix:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Analyte	MDE Residential Soil Cleanup Standard (mg/kg)	MDE Non-Residential Soil Cleanup Standard (mg/kg)	MDE Anticipated Typical Concentration in Soils (Eastern MD)	Metals Lab Results - mg/kg (or ppm)													
Mercury (element)	0.09	0.09	0.09	0.06 (j)	ND	ND	0.22	1.20	0.08 (j)	0.15	0.05 (j)	0.15(j)	0.07 (j)	0.07 (j)	ND	0.06 (j)	0.05 (j)
Mercury (inorganic/Mercuric Dichloride)	2.3	31	0.51	0.06 (j)	ND	ND	0.22	1.2	0.08 (j)	0.15	0.05 (j)	0.15	0.07 (j)	0.07 (j)	ND	0.06 (j)	0.05 (j)
Analyte	MDE Residential Soil Cleanup Standard (mg/kg)	MDE Non-Residential Soil Cleanup Standard (mg/kg)	MDE Anticipated Typical Concentration in Soils (Eastern MD)	PCB Lab Results - mg/kg (or ppm)													
Aroclor 1016	0.55	41	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1221	0.32	1.4	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1232	0.32	1.4	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1242	0.32	1.4	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1248	0.32	1.4	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1254	0.32	1.4	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1260	0.32	1.4	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

ND = Not Reported By Laboratory Above Reporting Limit

Maryland Department of the Environment (MDE) Cleanup Standards for

Soil and Groundwater, June 2008. Interim Final Guidance (update No.2.1).

(j) Lab Estimate Below Calibration Curve

mg/kg = milligram per kilogram

(j), (uj) see validation results

ppm = part per million

ft = foot/feet

Indicates Result At or Above MDE Residential Cleanup Standard

NTCB AOC 28 (Water Treatment Plant) Soil Mercury and PCB Soil Sample Results

Date Sample Collected:				5/18/2010	5/18/2010	5/18/2010
Sample Number:				AOC-28-34	DUP-AOC-28-01 (dup of AOC-28-34)	AOC-28-35
Sample Depth:				0-1 ft	0-1 ft	0-1 ft
Matrix:				Soil	Soil	Soil
Analyte	MDE Residential Soil Cleanup Standard (mg/kg)	MDE Non-Residential Soil Cleanup Standard (mg/kg)	MDE Anticipated Typical Concentration in Soils (Eastern MD)	Metals Lab Results - mg/kg (or ppm)		
Mercury (element)	0.09	0.09	0.09	0.07 (j)	0.08 (j)	0.06 (j)
Mercury (inorganic/Mercuric Dichloride)	2.3	31	0.51	0.07 (j)	0.08 (j)	0.06 (j)
Analyte	MDE Residential Soil Cleanup Standard (mg/kg)	MDE Non-Residential Soil Cleanup Standard (mg/kg)	MDE Anticipated Typical Concentration in Soils (Eastern MD)	PCB Lab Results - mg/kg (or ppm)		
Aroclor 1016	0.55	41	--	ND	ND	ND
Aroclor 1221	0.32	1.4	--	ND	ND	ND
Aroclor 1232	0.32	1.4	--	ND	ND	ND
Aroclor 1242	0.32	1.4	--	ND	ND	ND
Aroclor 1248	0.32	1.4	--	ND	ND	ND
Aroclor 1254	0.32	1.4	--	ND	ND	ND
Aroclor 1260	0.32	1.4	--	ND	ND	ND

Notes:

ND = Not Reported By Laboratory Above Reporting Limit

Maryland Department of the Environment (MDE) Cleanup Standards for

Soil and Groundwater, June 2008. Interim Final Guidance (update No.2.1).

(j) Lab Estimate Below Calibration Curve

mg/kg = milligram per kilogram

(j), (uj) see validation results

ppm = part per million

ft = foot/feet

NTCB AOC 28 (Water Treatment Plant) UST Soil VOC and TPH Soil Sample Results

Analyte			Date Sample Collected:	5/19/2010	5/19/2010
			Sample Number	AOC-28-UST-01	AOC-28-UST-02
			Sample Depth	10-12 ft	10-12 ft
			Matrix	Soil	Soil
Analyte	MDE Residential Soil Cleanup Standard (ug/kg)	MDE Non-Residential Soil Cleanup Standard (ug/kg)	VOC Lab Results - ug/kg (or ppb)		
Chloromethane	--	--	ND	ND	ND
Vinyl Chloride (early life) ^a	90	--	ND	ND	ND
Vinyl Chloride (adult) ^a	--	4,000	ND	ND	ND
Bromomethane	11,000	140,000	ND	ND	ND
Chloroethane	220,000	990,000	ND	ND	ND
Acetone	7,000,000	92,000,000	ND	ND	ND
1,1-Dichloroethene	390,000	5,100,000	ND	ND	ND
Methylene Chloride (Dichloromethane)	85,000	380,000	ND	ND	ND
trans-1,2-Dichloroethene	160,000	2,000,000	ND	ND	ND
Methyl tert-butyl ether (MTBE) ^c	160,000	720,000	ND	ND	ND
1,1-Dichloroethane	1,600,000	20,000,000	ND	ND	ND
2-Butanone (Methyl Ethyl Ketone)	4,700,000	61,000,000	ND[r]	ND[r]	ND[r]
cis-1,2-Dichloroethene	78,000	1,000,000	ND	ND	ND
Chloroform (THM) ^b	78,000	1,000,000	ND	ND	ND
1,1,1-Trichloroethane	16,000,000	200,000,000	ND	ND	ND
1,2-Dichloroethane	7,000	31,000	ND	ND	ND
Carbon Tetrachloride	4,900	22,000	ND	ND	ND
Benzene	12,000	52,000	ND	ND	ND
1,2-Dichloropropane	9,400	42,000	ND	ND	ND
Carbon Disulfide	780,000	10,000,000	ND	ND	ND
Trichloroethene	1,600	7,200	ND	ND	ND
Bromodichloromethane (THM) ^b	10,000	46,000	ND	ND	ND
cis-1,3-Dichloropropene	6,400	29,000	ND	ND	ND
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	--	--	ND[r]	ND[r]	ND[r]
trans-1,3-Dichloropropene	6,400	29,000	ND	ND	ND
1,1,2-Trichloroethane	11,000	50,000	ND	ND	ND
Toluene	630,000	8,200,000	ND	ND	ND
1,2-Dibromoethane (Ethylene Dibromide, EDB)	320	1,400	ND	ND	ND
Dibromochloromethane (THM) ^b	7,600	34,000	ND	ND	ND
Bromoform (THM) ^b	81,000	360,000	ND	ND	ND
Tetrachloroethene	1,200	5,300	ND	ND	ND
Chlorobenzene	160,000	2,000,000	ND	ND	ND
Ethylbenzene	780,000	10,000,000	ND	ND	ND
m,p-Xylenes	1,600,000	20,000,000	ND	ND	ND
Styrene	1,600,000	20,000,000	ND	ND	ND
1,1,2,2-Tetrachloroethane	3,200	14,000	ND	ND	ND
o-Xylenes	1,600,000	20,000,000	ND	ND	ND
Isopropylbenzene (Cumene)	780,000	10,000,000	ND	ND	ND
n-Propylbenzene	--	--	ND	ND	ND
1,3,5-Trimethylbenzene	--	--	ND	ND	ND
1,2,4-Trimethylbenzene	--	--	ND	ND	ND
n-Butylbenzene	--	--	ND	ND	ND
1,2-Dibromo-3-chloropropane	--	--	ND	ND	ND
Analyte	MDE Residential Soil Cleanup Standard (μg/kg)	MDE Non-Residential Soil Cleanup Standard (μg/kg)	TPH-GRO Lab Results - μg/kg (or ppb)		
Gasoline Range Organics (GRO)	230,000	620,000	ND	ND	ND
Analyte	MDE Residential Soil Cleanup Standard (mg/kg)	MDE Non-Residential Soil Cleanup Standard (mg/kg)	TPH-DRO Lab Results - mg/kg (or ppm)		
Diesel Range Organics (DRO)	230	620	ND	ND	ND

Notes: Maryland Department of the Environment (MDE) Cleanup Standards for Soil and Groundwater, June 2008. Interim Final Guidance (update No.2.1).

ND = Not Reported By Laboratory Above Reporting Limit

μg/kg = microgram per kilogram

ppb = part per billion

a = Carcinogenic chemicals with a Mutagenic Mode of Action (MOA).

Indicates Result Rejected By Validator

b = THM (trihalomethanes) Contaminants within this group are disinfection by products water sometimes added to drinking

[r] see validation results

NTCB AOC 28 (Water Treatment Plant) Reservoir Surface Water and Sediment Metals, Pesticide, PCB, and TPH Sample Results

Date Sample Collected:	5/20/2010	5/20/2010	5/20/2010	5/21/2010	5/20/2010
Sample Number	AOC-28-SW-SW MS/MSD	AOC-28-SW-NW	DUP-AOC-28-SW-01 (dup of AOC-28-SW-NW)	AOC-28-SW-NE	AOC-28-SW-SE
Matrix	Surface Water				

Analyte	USEPA RSL Screening Level ($\mu\text{g/L}$)	Metals Lab Results - $\mu\text{g/L}$ (or ppb)				
Antimony	5.6	ND	ND	ND	ND	ND
Arsenic	0.18	0.7 (b)	0.7 (b)	0.7 (b)	0.8 (b)	0.7 (b)
Beryllium	4	ND	ND	ND	ND	ND
Cadmium	5	ND	ND	ND	ND	ND
Chromium (total)	100	ND	ND	0.5 (j)	ND	ND
Copper	1,300	1.0	1.0	1.2	1.0(b)	1.3
Lead	--	ND	ND	ND	ND	ND
Mercury	--	ND	ND	ND	ND	ND
Nickel	610	1.3	2.2	3.9	2.0	1.9
Selenium	170	ND	ND	ND	ND	ND
Silver	--	ND <ul style="list-style-type: none">(ul)				
Thallium	0.24	0.5 (j)	ND	ND	ND	ND
Zinc	7,400	ND	ND	ND	ND	ND

Date Sample Collected:	5/20/2010	5/20/2010	5/20/2010	5/21/2010	5/20/2010	
Sample Number	AOC-28-SED-SW MS/MSD	AOC-28-SED-NW	DUP-SED-01 (dup of AOC-28-SED-NW)	AOC-28-SED-NE	AOC-28-SED-SE	
Matrix	Sediment					
Analyte	MDE Residential Soil Cleanup Standard (mg/kg)	MDE Non-Residential Soil Cleanup Standard (mg/kg)	Metals Lab Results - mg/kg (or ppm)			
Antimony	3.1	41	ND	ND	ND	ND <ul style="list-style-type: none">(ul)
Arsenic	6.0 (*)	6.0 (*)	4.8	3.3	3.6	3.1
Beryllium	16	200	ND <ul style="list-style-type: none">(ul)			
Cadmium	3.9	51	ND	ND	ND	ND
Chromium (total)	23	310	130	21	21	20
Copper	310	4100	8.3	24	18	11(k)
Lead	400	1000	7.3	9.1	9.5	7.7(k)
Mercury (element)	0.09	0.09	ND	ND	ND	ND
Mercury (I)	2.3	31	ND	ND	ND	ND
Nickel	160	2000	8.0	11	12	ND(k)
Selenium	39	510	ND	ND	ND	ND <ul style="list-style-type: none">[r]
Silver	39	510	ND	ND	ND	ND
Thallium	0.55	7.2	ND	ND	ND	ND
Zinc	2,300	31,000	17(j)	38(j)	34(j)	26(b)

Analyte	USEPA RSL Screening Level ($\mu\text{g/L}$)	Pesticide Lab Results - $\mu\text{g/L}$ (or ppb)				
4,4'-DDD	0.0031	ND	ND	ND	ND	ND
4,4'-DDE	0.0022	ND	ND	ND	ND	ND
4,4'-DDT	0.0022	ND	ND	ND	ND	ND
Aldrin	0.00049	ND	ND	ND	ND	ND
a-BHC (a-HCH)	0.049	ND	ND	ND	ND	ND
alpha-Chlordane	0.008	ND	ND	ND	ND	ND
b-BHC (b-HCH)	0.091	ND	ND	ND	ND	ND
d-BHC	--	ND	ND	ND	ND	ND
Dieledrin	0.00052	ND	ND	ND	ND	ND
Endosulfan I	--	ND	ND	ND	ND	ND
Endosulfan II	--	ND	ND	ND	ND	ND
Endosulfan Sulfate	62	ND	ND	ND	ND	ND
Endrin	0.059	ND	ND	ND	ND	ND
Endrin Aldehyde	0.29	ND	ND	ND	ND	ND
Endrin Ketone	--	ND	ND	ND	ND	ND
g-BHC (Lindane)	0.98	ND	ND	ND	ND	ND
gamma-Chlordane	2	ND	ND	ND	ND	ND
Heptachlor	0.00079	ND	ND	ND	ND	ND
Heptachlor Epoxide	0.00039	ND	ND	ND	ND	ND
Methoxychlor	--	ND	ND	ND	ND	ND
Toxaphene	0.0028	ND	ND	ND	ND	ND

Analyte	USEPA RSL Screening Level ($\mu\text{g/L}$)	PCB Lab Results - $\mu\text{g/L}$ (or ppb)				
Aroclor 1016	--	ND	ND	ND	ND	ND <ul style="list-style-type: none">[r]
Aroclor 1221	--	ND	ND	ND	ND	ND <ul style="list-style-type: none">[r]
Aroclor 1232	--	ND	ND	ND	ND	ND <ul style="list-style-type: none">[r]
Aroclor 1242	--	ND	ND	ND	ND	ND <ul style="list-style-type: none">[r]
Aroclor 1248	--	ND	ND	ND	ND	ND <ul style="list-style-type: none">[r]
Aroclor 1254	--	ND	ND	ND	ND	ND <ul style="list-style-type: none">[r]
Aroclor 1260	--	ND	ND	ND	ND	ND <ul style="list-style-type: none">[r]

Analyte	USEPA RSL Screening Level ($\mu\text{g/L}$)	TPH-GRO Lab Results - $\mu\text{g/L}$ (or ppb)				
Gasoline Range Organics (GRO)	--	ND	ND	ND	ND	ND
Analyte	USEPA RSL Screening Level ($\mu\text{g/L}$)	TPH-DRO Lab Results - mg/L (or ppm)				
Diesel Range Organics (DRO)	--	0.042(b)	0.055(b)	ND	0.065(b)	0.07(b)

Analyte	MDE Residential Soil Cleanup Standard (mg/kg)	MDE Non-Residential Soil Cleanup Standard (mg/kg)	PCB Lab Results - mg/kg (or ppm)			
Aroclor 1016	0.55	41	ND	ND	ND	ND
Aroclor 1221	0.32	1.4	ND	ND	ND	ND
Aroclor 1232	0.32	1.4	ND	ND	ND	ND
Aroclor 1242	0.32	1.4	ND	ND	ND	ND
Aroclor 1248	0.32	1.4	ND	ND	ND	ND
Aroclor 1254	0.32	1.4	ND	ND	ND	ND
Aroclor 1260	0.32	1.4	ND	ND	ND	ND

Analyte	MDE Residential Soil Cleanup Standard (mg/kg)	MDE Non-Residential Soil Cleanup Standard (mg/kg)	TPH-GRO Lab Results - $\mu\text{g/kg}$ (or ppb)			
Gasoline Range Organics (GRO)	230,000	620,000	ND	ND	ND	ND
Analyte	MDE Residential Soil Cleanup Standard (mg/kg)	MDE Non-Residential Soil Cleanup Standard (mg/kg)	TPH-DRO Lab Results - mg/kg (or ppm)			
Diesel Range Organics (DRO)	230	620	ND	ND	ND	ND

Notes: ND = Not Reported By Laboratory Above Reporting Limit
 $\mu\text{g/L}$ = microgram per liter $\mu\text{g}/\text{kg}$ = microgram per kilogram ppm = Part per million
 ppb = part per billion Maryland Department of the Environment (MDE) Numerical Criteria for Toxic Substances in Surface Waters, Drinking Water and Organism standards, dated 2007
 (b), (j), (ul), [r], (k) see validation results

NTCB AOC 28 (Water Treatment Plant) Reservoir Surface Water and Sediment VOC Sample Results

Date Sample Collected:		5/20/2010	5/20/2010	5/20/2010	5/21/2010	5/20/2010
Sample Number		AOC-28-SW-SW MS/MSD	AOC-28-SW-NW	DUP-AOC-28-SW-01 (dup of AOC-28-SW-NW)	AOC-28-SW-NE	AOC-28-SW-SE
Matrix		Surface Water				
Analyte	USEPA RSL Screening Level ($\mu\text{g/L}$)	VOC Lab Results - $\mu\text{g/L}$ (or ppb)				
		ND[r]	ND[r]	ND[r]	ND[r]	ND[r]
Chloromethane	--	ND	ND	ND	ND	ND
Vinyl Chloride	0.25	ND	ND	ND	ND	ND
Bromomethane	--	ND	ND	ND	ND	ND
Chloroethane	--	ND	ND	ND	ND	ND
Acetone	--	ND[r]	ND[r]	ND[r]	ND[r]	ND[r]
1,1-Dichloroethene	330	ND	ND	ND	ND	ND
Methylene Chloride (Dichloromethane)	46	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	140	ND	ND	ND	ND	ND
Methyl tert-butyl ether (MTBE)	--	ND	ND	ND	ND	ND
1,1-Dichloroethane	--	ND	ND	ND	ND	ND
2-Butanone (Methyl Ethyl Ketone)	--	ND[r]	ND[r]	ND[r]	ND[r]	ND[r]
cis-1,2-Dichloroethene	--	ND	ND	ND	ND	ND
Chloroform (THM)	80	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	ND	ND	ND	ND	ND
1,2-Dichloroethane	3.8	ND	ND	ND	ND	ND
Carbon Tetrachloride	2.3	ND	ND	ND	ND	ND
Benzene	22	ND	ND	ND	ND	ND
1,2-Dichloropropane	5	ND	ND	ND	ND	ND
Carbon Disulfide	--	ND	ND	ND	ND	ND
Trichloroethene	25	ND	ND	ND	ND	ND
Bromodichloromethane (THM)	--	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	--	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	--	ND[r]	ND[r]	ND[r]	ND[r]	ND[r]
trans-1,3-Dichloropropene	--	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	--	ND	ND	ND	ND	ND
Toluene	1,300	ND	ND	ND	ND	ND
1,2-Dibromoethane (Ethylene Dibromide, EDB)	--	ND	ND	ND	ND	ND
Dibromochloromethane (THM)	80	ND	ND	ND	ND	ND
Bromoform (THM)	80	ND	ND	ND	ND	ND
Tetrachloroethene	6.9	ND	ND	ND	ND	ND
Chlorobenzene	130	ND(ul)	ND(ul)	ND(ul)	ND(ul)	ND(ul)
Ethylbenzene	530	ND	ND	ND	ND	ND
m,p-Xylenes	--	ND	ND	ND	ND	ND
Styrene	--	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	1.7	ND	ND	ND	ND	ND
o-Xylenes	--	ND	ND	ND	ND	ND
Isopropylbenzene (Cumene)	--	ND	ND	ND	ND	ND
n-Propylbenzene	--	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	--	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	--	ND	ND	ND	ND	ND
n-Butylbenzene	--	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	--	ND	ND	ND	ND	ND

Notes: ND = Not Reported By Laboratory Above Reporting Limit

$\mu\text{g/L}$ = microgram per liter ppb = part per billion

Maryland Department of the Environment (MDE) Numerical Criteria for

Toxic Substances in Surface Waters, Drinking Water and Organism standards, dated 2007

Indicates Result Rejected By Validator

Date Sample Collected:		5/20/2010	5/20/2010	5/20/2010	5/21/2010	5/20/2010	
Sample Number		AOC-28-SED-SW-MS/MSD	AOC-28-SED-NW	DUP-SED-01 (dup of AOC-28-SED-NW)	AOC-28-SED-NE	AOC-28-SED-SE	
Matrix		Sediment					
Analyte	MDE Residential Soil Cleanup Standard ($\mu\text{g/kg}$)	MDE Non-Residential Soil Cleanup Standard ($\mu\text{g/kg}$)	VOC Lab Results - $\mu\text{g/kg}$ (or ppb)				
Chloromethane	--	--	ND	ND	ND	ND	ND
Vinyl Chloride (early life)	90	--	ND	ND	ND	ND	ND
Vinyl Chloride (adult)	--	4,000	ND	ND	ND	ND	ND
Bromomethane	11,000	140,000	ND	ND	ND	ND	ND
Chloroethane	220,000	990,000	ND	ND	ND	ND	ND
Acetone	7,000,000	92,000,000	ND	ND	ND	ND	ND
1,1-Dichloroethene	390,000	5,100,000	ND	ND	ND	ND	ND
Methylene Chloride (Dichloromethane)	85,000	380,000	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	160,000	2,000,000	ND	ND	ND	ND	ND
Methyl tert-butyl ether (MTBE)	160,000	720,000	ND	ND	ND	ND	ND
1,1-Dichloroethane	1,600,000	20,000,000	ND	ND	ND	ND	ND
2-Butanone (Methyl Ethyl Ketone)	4,700,000	61,000,000	ND[r]	ND[r]	ND[r]	ND[r]	ND[r]
cis-1,2-Dichloroethene	78,000	1,000,000	ND	ND	ND	ND	ND
Chloroform (THM)	78,000	1,000,000	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	16,000,000	200,000,000	ND	ND	ND	ND	ND
1,2-Dichloroethane	7,000	31,000	ND	ND	ND	ND	ND
Carbon Tetrachloride	4,900	22,000	ND	ND	ND	ND	ND
Benzene	12,000	52,000	ND	ND	ND	ND	ND
1,2-Dichloropropane	9,400	42,000	ND	ND	ND	ND	ND
Carbon Disulfide	780,000	10,000,000	ND	ND	ND	ND	ND
Trichloroethene	1,600	7,200	ND	ND	ND	ND	ND
Bromodichloromethane (THM)	10,000	46,000	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	6,400	29,000	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	--	--	ND[r]	ND[r]	ND[r]	ND[r]	ND[r]
trans-1,3-Dichloropropene	6,400	29,000	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	11,000	50,000	ND	ND	ND	ND	ND
Toluene	630,000	8,200,000	ND	ND	ND	ND	ND
1,2-Dibromoethane (Ethylene Dibromide, EDB)	320	1,400	ND	ND	ND	ND	ND
Dibromochloromethane (THM)	7,600	34,000	ND	ND	ND	ND	ND
Bromoform (THM)	81,000	360,000	ND	ND	ND	ND	ND
Tetrachloroethene	1,200	5,300	ND	ND	ND	ND	ND
Chlorobenzene	160,000	2,000,000	ND	ND	ND	ND	ND
Ethylbenzene	780,000	10,000,000	ND	ND	ND	ND	ND
m,p-Xylenes	1,600,000	20,000,000	ND	ND	ND	ND	ND
Styrene	1,600,000	20,000,000	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	3,200	14,000	ND	ND	ND	ND	ND
o-Xylenes	1,600,000	20,000,000	ND	ND	ND	ND	ND
Isopropylbenzene (Cumene)	780,000	10,000,000	ND	ND	ND	ND	ND
n-Propylbenzene	--	--	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	--	--	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	--	--	ND	ND	ND	ND	ND
n-Butylbenzene	--	--	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	--	--	ND	ND	ND	ND	ND

Notes: ND = Not Reported By Laboratory Above Reporting Limit

ND = Not Reported By Laboratory Above Reporting Limit

$\mu\text{g/kg}$ = microgram per kilogram

ppb = part per billion

MDE Cleanup Standards for Soil and Groundwater, June 2008. Interim Final Guidance (update No.2.1).

[r]. (ul) see validation results

Indicates Result Rejected By Validator

NTCB AOC 28 (Water Treatment Plant) Reservoir Surface Water and Sediment SVOC Sample Results

Date Sample Collected:	5/20/2010	5/20/2010	5/20/2010	5/21/2010	5/20/2010	
Sample Number	AOC-28-SW-SW MS/MSD	AOC-28-SW-NW	DUP-AOC-28-SW-01 (dup of AOC-28-SW-NW)	AOC-28-SW-NE	AOC-28-SW-SE	
Matrix	Surface Water					
Analyte	USEPA RSL Screening Level ($\mu\text{g/L}$)	SVOC Lab Results - $\mu\text{g/L}$ (or ppb)				
Acenaphthene	670	ND	ND	ND	ND	ND
Acenaphthylene	--	ND	ND	ND	ND	ND
Anthracene	8,300	ND	ND	ND	ND	ND
Benzo[a]anthracene ^a	0.038	ND	ND	ND	ND	ND
Benzo[a]pyrene ^a	0.038	ND	ND	ND	ND	ND
Benzo[b]fluoranthene ^a	0.038	ND	ND	ND	ND	ND
Benzo[g,h,i]perylene	--	ND	ND	ND	ND	ND
Benzo[k]fluoranthene ^a	0.038	ND	ND	ND	ND	ND
bis(2-Chloroethyl)ether	0.30	ND	ND	ND	ND	ND
bis(2-Ethylhexyl)phthalate	12	ND	ND	ND	ND	ND
Carbazole	--	ND	ND	ND	ND	ND
4-Chloroaniline	--	ND	ND	ND	ND	ND
2-Chloronaphthalene	1,000	ND	ND	ND	ND	ND
2-Chlorophenol	81	ND	ND	ND	ND	ND
Chrysene ^a	0.038	ND	ND	ND	ND	ND
Dibenz[a,h]anthracene ^a	0.038	ND	ND	ND	ND	ND
Dibenzofuran	--	ND	ND	ND	ND	ND
Di(2-ethylhexyl)adipate	--	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	420	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	320	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	63	ND	ND	ND	ND	ND
3,3-Dichlorobenzidine	0.21	ND	ND	ND	ND	ND
2,4-Dichlorophenol	77	ND	ND	ND	ND	ND
Diethylphthalate	17,000	ND	ND	ND	ND	ND
2,4-Dimethylphenol	380	ND	ND	ND	ND	ND
Di-n-butylphthalate	2,000	ND	ND	ND	ND	ND
2,4-Dinitrophenol	69	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	1.1	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	--	ND	ND	ND	ND	ND
Fluoranthene	130	ND	ND	ND	ND	ND
Fluorene	1,100	ND	ND	ND	ND	ND
Hexachlorobenzene	0.0028	ND	ND	ND	ND	ND
Hexachlorobutadiene	4.4	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	40	ND	ND	ND	ND	ND
Hexachloroethane	14	ND	ND	ND	ND	ND
Indeno[1,2,3-c,d]pyrene ^a	0.038	ND	ND	ND	ND	ND
Isophorone	350	ND	ND	ND	ND	ND
2-Methylnaphthalene	--	ND	ND	ND	ND	ND
2-Methylphenol	--	ND	ND	ND	ND	ND
4-Methylphenol	--	ND	ND	ND	ND	ND
Naphthalene	--	ND	ND	ND	ND	ND
Nitrobenzene	17	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	30	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	0.05	ND	ND	ND	ND	ND
Bis(2-Chloroisopropyl)ether	1,400	ND	ND	ND	ND	ND
Pentachlorophenol	--	ND	ND	ND	ND	ND
Phenanthrene	--	ND	ND	ND	ND	ND
Phenol	21,000	ND	ND	ND	ND	ND
Pyrene	830	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	35	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	--	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	14	ND	ND	ND	ND	ND

Notes:

$\mu\text{g/L}$ = microgram per liter

ND = Not Reported By Laboratory Above Reporting Limit

ppb = part per billion

Maryland Department of the Environment (MDE) Numerical Criteria for

Toxic Substances in Surface Waters, Drinking Water and Organism standards, dated 2007

Date Sample Collected:	5/20/2010	5/20/2010	5/20/2010	5/21/2010	5/20/2010	
Sample Number	AOC-28-SED-SW	AOC-28-MS/MSD	DUP-SED-01 (dup of AOC-28-SED-NW)	AOC-28-SED-NE	AOC-28-SED-SE	
Matrix	Sediment					
Analyte	MDE Residential Soil Cleanup Standard ($\mu\text{g/kg}$)	MDE Non-Residential Soil Cleanup Standard ($\mu\text{g/kg}$)	SVOC Lab Results - $\mu\text{g/kg}$ (or ppb)			
Acenaphthene	470,000	6,100,000	ND	ND	ND	ND
Acenaphthylene	470,000	6,100,000	ND	ND	ND	ND
Anthracene	2,300,000	31,000,000	ND	ND	ND	ND
Benzo[a]anthracene ^a	220	3,900	ND	ND	ND	ND
Benzo[a]pyrene ^a	22	390	ND	ND	ND	ND
Benzo[b]fluoranthene ^a	220	3,900	ND	ND	ND	ND
Benzo[g,h,i]perylene	230,000	3,100,000	ND	ND	ND	ND
Benzo[k]fluoranthene ^a	2,200	39,000	ND	ND	ND	ND
bis(2-Chloroethyl)ether	580	2,600	ND	ND	ND	ND
bis(2-Ethylhexyl)phthalate	9,100	41,000	ND	ND	ND	ND
Carbazole	46,000	200,000	ND	ND	ND	ND
4-Chloroaniline	780,000	10,000,000	ND	ND	ND	ND
2-Chloronaphthalene	32,000	140,000	ND	ND	ND	ND
2-Chlorophenol	31,000	410,000	ND	ND	ND	ND
Chrysene ^a	630,000	8,200,000	ND	ND	ND	ND
Dibenz[a,h]anthracene ^a	39,000	510,000	ND	ND	ND	ND
Dibenzofuran	22,000	390,000	ND	ND	ND	ND
Di(2-ethylhexyl)adipate	22	390	ND	ND	ND	ND
1,2-Dichlorobenzene	7,800	100,000	ND	ND	ND	ND
1,3-Dichlorobenzene	700,000	9,200,000	ND	ND	ND	ND
1,4-Dichlorobenzene	23,000	310,000	ND	ND	ND	ND
3,3-Dichlorobenzidine	27,000	120,000	ND	ND	ND	ND
2,4-Dichlorophenol	1,400	6,400	ND	ND	ND	ND
Diethylphthalate	23,000	310,000	ND	ND	ND	ND
2,4-Dimethylphenol	6,300,000	82,000,000	ND	ND	ND	ND
Di-n-butylphthalate	160,000	2,000,000	ND	ND	ND	ND
2,4-Dinitrophenol	16,000	200,000	ND	ND	ND	ND
2,4-Dinitrotoluene	16,000	200,000	ND	ND	ND	ND
2,6-Dinitrotoluene	7,800	100,000	ND	ND	ND	ND
Fluoranthene	310,000	4,100,000	ND	ND	ND	ND
Fluorene	310,000	4,100,000	ND	ND	ND	ND
Hexachlorobenzene	400	1,800	ND	ND	ND	ND
Hexachlorobutadiene	8,200	37,000	ND	ND	ND	ND
Hexachlorocyclopentadiene	47,000	610,000	ND	ND	ND	ND
Hexachloroethane	46,000	200,000	ND	ND	ND	ND
Indeno[1,2,3-c,d]pyrene ^a	220	3,900	ND	ND	ND	ND
Isophorone	670,000	3,000,000	ND	ND	ND	ND
2-Methylnaphthalene	31,000	410,000	ND	ND	ND	ND
2-Methylphenol	390,000	5,100,000	ND	ND	ND	ND
4-Methylphenol	39,000	510,000	ND	ND	ND	ND
Naphthalene	160,000	2,000,000	ND	ND	ND	ND
Nitrobenzene	3,900	51,000	ND	ND	ND	ND
N-Nitrosodiphenylamine	130,000	580,000	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	91	410	ND	ND	ND	ND
Bis(2-Chloroisopropyl)ether	5,300	24,000	ND	ND	ND	ND
Pentachlorophenol	2,300,000	31,000,000	ND	ND	ND	ND
Phenanthrene	2,300,000	31,000,000	ND	ND	ND	ND
Phenol	230,000	3,100,000	ND	ND	ND	

Attachment C
Laboratory Results

Analytical Report for

ARGO Systems

Certificate of Analysis No.: 10052118

Project Manager: (b) (4)

Project Name : NTCB

Project Location: Port Deposit

Project ID : 1462309



July 28, 2010

Phase Separation Science, Inc.
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PHASE SEPARATION SCIENCE, INC.



July 28, 2010

(b) (4)

ARGO Systems

1403 Madison Park Dr., Ste. 205
Glen Burnie, MD 21061

Reference: PSS Work Order No: **10052118**

Project Name : NTCB

Project Location: Port Deposit

Project ID.: 1462309

Dear (b) (4) :

The attached Analytical and QC Summary lists the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Work Order numbered **10052118**.

All work reported herein has been performed in accordance with referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on June 25, 2010. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt , the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 10 years, after which time it will be disposed without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or info@phaseonline.com.

(b) (4)



Laboratory Manager



Case Narrative Summary
Client Name: ARGO Systems
Project Name: NTCB

Project ID: 1462309

Work Order Number: 10052118

The following samples were received under chain of custody by Phase Separation Science (PSS) on 05/21/2010 at 03:40 pm

Lab Sample Id	Sample Id	Matrix	Date/Time Collected
10052118-001	AOC-28-SW-SW MS/MSD	SURFACE WATER	05/20/2010 14:10
10052118-002	AOC-28-SW-NW	SURFACE WATER	05/20/2010 13:50
10052118-003	AOC-28-SW-SE	SURFACE WATER	05/20/2010 14:50
10052118-004	DUP-AOC-28-SW-01	SURFACE WATER	05/20/2010 00:00
10052118-005	DUP-SED-01	SOIL	05/20/2010 00:00
10052118-006	AOC-28-SED-SW MS/MSD	SOIL	05/20/2010 14:10
10052118-007	AOC-28-SED-SE	SOIL	05/20/2010 14:50
10052118-008	AOC-28-SED-NW	SOIL	05/20/2010 13:50
10052118-009	AOC-28-14	SOIL	05/20/2010 09:50
10052118-010	AOC-28-22	SOIL	05/20/2010 10:55
10052118-011	AOC-28-04	SOIL	05/20/2010 10:20
10052118-012	AOC-28-21	SOIL	05/20/2010 10:50
10052118-013	AOC-28-08	SOIL	05/20/2010 10:05
10052118-014	AOC-28-26	SOIL	05/20/2010 11:00
10052118-015	AOC-28-05 MS/MSD	SOIL	05/20/2010 08:50
10052118-016	AOC-28-25	SOIL	05/20/2010 11:15
10052118-017	AOC-28-18	SOIL	05/20/2010 10:45
10052118-018	AOC-28-30	SOIL	05/20/2010 11:30
10052118-019	AOC-28-13	SOIL	05/20/2010 09:10
10052118-020	AOC-28-SW-NE	SURFACE WATER	05/21/2010 09:05
10052118-021	AOC-28-11	SOIL	05/20/2010 09:40
10052118-022	AOC-28-10	SOIL	05/20/2010 10:15
10052118-023	AOC-28-15	SOIL	05/20/2010 10:35
10052118-024	AOC-28-16	SOIL	05/20/2010 10:40
10052118-025	DUP-AOC-28-01	SOIL	05/20/2010 00:00
10052118-026	DUP-AOC-28-02	SOIL	05/20/2010 00:00
10052118-027	AOC-28-07	SOIL	05/20/2010 10:00
10052118-028	AOC-28-23	SOIL	05/20/2010 13:20
10052118-029	AOC-28-09	SOIL	05/20/2010 09:00
10052118-030	AOC-28-06	SOIL	05/20/2010 09:30
10052118-031	AOC-28-1	SOIL	05/20/2010 09:20
10052118-032	AOC-28-3	SOIL	05/20/2010 10:15
10052118-033	DUP-AOC-28-03	SOIL	05/20/2010 00:00
10052118-034	AOC-28-31	SOIL	05/20/2010 11:10
10052118-035	AOC-28-32	SOIL	05/20/2010 11:05
10052118-036	AOC-28-24	SOIL	05/20/2010 13:10
10052118-037	AOC-28-02 MS/MSD	SOIL	05/20/2010 08:55
10052118-038	AOC-28-12	SOIL	05/20/2010 10:25
10052118-039	AOC-28-17	SOIL	05/20/2010 10:30
10052118-040	DUP-AOC-28-04	SOIL	05/20/2010 00:00
10052118-041	AOC-28-SED-NE	SOIL	05/21/2010 09:05
10052118-042	EB-11	SURFACE WATER	05/21/2010 10:00
10052118-043	EB-12	SURFACE WATER	05/21/2010 10:05



Case Narrative Summary
Client Name: ARGO Systems
Project Name: NTCB

Project ID: 1462309

Work Order Number: 10052118

10052118-044	TB-01	WATER	05/21/2010 00:00
10052118-045	AOC-3-49/0-2	SOIL	05/12/2010 11:00
10052118-046	AOC-3-39/0-2 MS/MSD	SOIL	05/12/2010 13:45
10052118-047	AOC-3-50/0-2	SOIL	05/12/2010 10:20
10052118-048	AOC-3-23/0-2	SOIL	05/12/2010 13:15
10052118-049	AOC-3-46/0-2	SOIL	05/12/2010 10:05
10052118-050	AOC-3-11/0-2	SOIL	05/12/2010 12:00
10052118-051	AOC-3-4/0-2	SOIL	05/12/2010 11:00
10052118-052	AOC-3-16/0-2	SOIL	05/12/2010 12:45
10052118-053	AOC-3-48/0-2	SOIL	05/12/2010 10:35
10052118-054	AOC-3-21/0-2	SOIL	05/13/2010 08:10
10052118-055	DUP-AOC-3-10	SOIL	05/12/2010 00:00
10052118-056	AOC-3-42/0-2	SOIL	05/12/2010 11:20
10052118-057	AOC-3-38/0-2	SOIL	05/13/2010 08:30
10052118-058	R-50/2-4	SOIL	05/06/2010 08:45
10052118-059	NR-11/2-4	SOIL	05/04/2010 09:00
10052118-060	NR-5/2-4	SOIL	05/04/2010 13:30
10052118-061	R-109/2-4	SOIL	05/06/2010 08:55
10052118-062	NR-44/2-4	SOIL	05/03/2010 10:45
10052118-063	NR-43/2-4	SOIL	05/03/2010 10:20
10052118-064	NR-8/2-4	SOIL	05/04/2010 09:25
10052118-065	R-33/2-4	SOIL	05/04/2010 13:15
10052118-066	1A-39/2-4	SOIL	05/07/2010 14:40
10052118-067	AOC-3-41/0-2	SOIL	05/12/2010 14:00
10052118-068	DUP-AOC-3-11	SOIL	05/12/2010 00:00
10052118-069	AOC-3-18/0-2	SOIL	05/11/2010 12:30
10052118-070	AOC-3-34/0-2	SOIL	05/12/2010 14:50
10052118-071	DUP-AOC-3-12	SOIL	05/12/2010 00:00
10052118-072	AOC-3-30/0-2	SOIL	05/12/2010 13:05
10052118-073	AOC-3-13/0-2	SOIL	05/11/2010 09:00
10052118-074	AOC-3-37/0-2	SOIL	05/12/2010 12:45
10052118-075	AOC-3-20/0-2	SOIL	05/12/2010 09:30
10052118-076	AOC-3-28/0-2	SOIL	05/12/2010 14:40
10052118-077	AOC-3-25/0-2	SOIL	05/11/2010 10:00
10052118-078	AOC-3-36/0-2	SOIL	05/12/2010 13:40
10052118-079	AOC-3-40/0-2 MS/MSD	SOIL	05/12/2010 14:10

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in the Sample Receipt Checklist.

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

Narrative Comments:

Total metals (water):

Intermediate and Closing CCV's have a Ag recovery of 89%, 87% respectively, limits 90-110%. Samples affected are 001-004, 020, 043

Total metals (solids):



Case Narrative Summary

Client Name: ARGO Systems

Project Name: NTCB

Project ID: 1462309

Work Order Number: 10052118

Intermediate and Closing CCV's have a Be recovery of 88%, 86% respectively, limits 90-110%. Samples affected are 005-008. GC/MS - Samples 005, 006, 007, 008, 041, 006 MS, 006 MSD - both sodium bisulfate containers for each samples were analyzed in a batch with tetrachloroethene carryover. These samples were reanalyzed using Preparation Method SW5030 and the results were reported.

Total metals (soils):

Opening CCV has a Be recovery of 89%, limits 90-110%. Samples affected are 076, 077, 078.

PCBs:

The PCB matrix spike and matrix spike duplicate were inadvertently spiked with the pesticide spike solution instead of the PCB spike solution; the laboratory control sample and laboratory control sample duplicate were acceptable.

Notes:

1. The presence of common laboratory contaminants such as acetone, methylene chloride and phthalates, may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
2. The following analytical results are never reported on a dry weight basis: pH, flashpoint, moisture and paint filter test.
3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].

Standard Flags/Abbreviations:

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

C Results Pending Final Confirmation.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

Fail The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.

J The target analyte was positively identified below the reporting limit but greater than one-half of the reporting limit.

LOD Limit of Detection. An estimate of the minimum amount of a substance that an analytical process can reliably detect.

An LOD is analyte and matrix specific.

ND Not Detected at or above the reporting limit.

RL PSS Reporting Limit.

U Not detected.

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-SW-SW MS/MSD	Date/Time Sampled: 05/20/2010 14:10	PSS Sample ID: 10052118-001
Matrix: SURFACE WATER	Date/Time Received: 05/21/2010 15:40	

PP MDE Metals	Analytical Method: SW846 6020A	Preparation Method: SW846 3010A
---------------	--------------------------------	---------------------------------

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	05/25/10	05/25/10 16:42	1033
Arsenic	0.7	ug/L	1.0	J	1	0.5	05/25/10	05/28/10 10:57	1033
Beryllium	ND	ug/L	0.5		1	0.5	05/25/10	05/25/10 16:42	1033
Cadmium	ND	ug/L	1.0		1	0.5	05/25/10	05/25/10 16:42	1033
Chromium	ND	ug/L	1.0		1	0.5	05/25/10	05/25/10 16:42	1033
Copper	1.0	ug/L	1.0		1	0.5	05/25/10	05/28/10 10:57	1033
Lead	ND	ug/L	1.0		1	0.5	05/25/10	05/25/10 16:42	1033
Mercury	ND	ug/L	0.20		1	0.1	05/25/10	05/25/10 16:42	1033
Nickel	1.3	ug/L	1.0		1	0.5	05/25/10	05/25/10 16:42	1033
Selenium	ND	ug/L	1.0		1	0.5	05/25/10	05/25/10 16:42	1033
Silver	ND	ug/L	1.0		1	0.5	05/25/10	05/25/10 16:42	1033
Thallium	0.5	ug/L	1.0	J	1	0.5	05/25/10	05/25/10 16:42	1033
Zinc	ND	ug/L	20		1	10	05/25/10	05/25/10 16:42	1033

Total Petroleum Hydrocarbons - DRO	Analytical Method: SW846 8015C	Preparation Method: SW846 3510C
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	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	0.042	mg/L	0.040		1	0.04	05/24/10	05/24/10 14:23	1040

Total Petroleum Hydrocarbons-GRO	Analytical Method: SW846 8015C	Preparation Method: SW846 5030B
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	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	40		1	40	05/24/10	05/24/10 12:21	1035

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-SW-SW MS/MSD	Date/Time Sampled: 05/20/2010 14:10	PSS Sample ID: 10052118-001
Matrix: SURFACE WATER	Date/Time Received: 05/21/2010 15:40	

VCP Organochlorine Pesticides	Analytical Method: SW846 8081B	Preparation Method: SW846 3510C
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	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Aldrin	ND	ug/L	0.04	1	1	0.04	05/24/10	05/25/10 13:55	1029
alpha-BHC	ND	ug/L	0.04	1	1	0.04	05/24/10	05/25/10 13:55	1029
beta-BHC	ND	ug/L	0.04	1	1	0.04	05/24/10	05/25/10 13:55	1029
delta-BHC	ND	ug/L	0.08	1	1	0.04	05/24/10	05/25/10 13:55	1029
alpha-Chlordane	ND	ug/L	0.08	1	1	0.04	05/24/10	05/25/10 13:55	1029
gamma-Chlordane	ND	ug/L	0.08	1	1	0.04	05/24/10	05/25/10 13:55	1029
4,4-DDD	ND	ug/L	0.08	1	1	0.04	05/24/10	05/25/10 13:55	1029
4,4-DDE	ND	ug/L	0.08	1	1	0.04	05/24/10	05/25/10 13:55	1029
4,4-DDT	ND	ug/L	0.08	1	1	0.04	05/24/10	05/25/10 13:55	1029
Dieldrin	ND	ug/L	0.04	1	1	0.04	05/24/10	05/25/10 13:55	1029
Endosulfan I	ND	ug/L	0.08	1	1	0.04	05/24/10	05/25/10 13:55	1029
Endosulfan II	ND	ug/L	0.08	1	1	0.04	05/24/10	05/25/10 13:55	1029
Endosulfan sulfate	ND	ug/L	0.08	1	1	0.04	05/24/10	05/25/10 13:55	1029
Endrin	ND	ug/L	0.08	1	1	0.04	05/24/10	05/25/10 13:55	1029
Endrin aldehyde	ND	ug/L	0.08	1	1	0.04	05/24/10	05/25/10 13:55	1029
Endrin ketone	ND	ug/L	0.08	1	1	0.04	05/24/10	05/25/10 13:55	1029
gamma-BHC (Lindane)	ND	ug/L	0.08	1	1	0.04	05/24/10	05/25/10 13:55	1029
Heptachlor	ND	ug/L	0.08	1	1	0.04	05/24/10	05/25/10 13:55	1029
Heptachlor epoxide	ND	ug/L	0.08	1	1	0.04	05/24/10	05/25/10 13:55	1029
Methoxychlor	ND	ug/L	0.08	1	1	0.04	05/24/10	05/25/10 13:55	1029
Toxaphene	ND	ug/L	2		1	1	05/24/10	05/25/10 13:55	1029

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CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-SW-SW MS/MSD Date/Time Sampled: 05/20/2010 14:10 PSS Sample ID: 10052118-001

Matrix: SURFACE WATER Date/Time Received: 05/21/2010 15:40

VCP Polychlorinated Biphenyls Analytical Method: SW846 8082A Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	ug/L	0.5		1	0.5	05/24/10	05/25/10 13:08	1029
PCB-1221	ND	ug/L	0.5		1	0.5	05/24/10	05/25/10 13:08	1029
PCB-1232	ND	ug/L	0.5		1	0.5	05/24/10	05/25/10 13:08	1029
PCB-1242	ND	ug/L	0.5		1	0.5	05/24/10	05/25/10 13:08	1029
PCB-1248	ND	ug/L	0.5		1	0.5	05/24/10	05/25/10 13:08	1029
PCB-1254	ND	ug/L	0.5		1	0.5	05/24/10	05/25/10 13:08	1029
PCB-1260	ND	ug/L	0.5		1	0.5	05/24/10	05/25/10 13:08	1029

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CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-SW-SW MS/MSD	Date/Time Sampled: 05/20/2010 14:10	PSS Sample ID: 10052118-001
Matrix: SURFACE WATER	Date/Time Received: 05/21/2010 15:40	
VCP Volatile Organic Compounds	Analytical Method: SW846 8260B	Preparation Method: SW846 5030B
Chloromethane	ND ug/L	1 1 0.5 05/24/10 05/24/10 16:35 1011
Vinyl Chloride	ND ug/L	1 1 0.5 05/24/10 05/24/10 16:35 1011
Bromomethane	ND ug/L	1 1 0.5 05/24/10 05/24/10 16:35 1011
Chloroethane	ND ug/L	1 1 0.5 05/24/10 05/24/10 16:35 1011
Acetone	ND ug/L	10 1 5 05/24/10 05/24/10 16:35 1011
1,1-Dichloroethene	ND ug/L	1 1 0.5 05/24/10 05/24/10 16:35 1011
Methylene Chloride	ND ug/L	1 1 0.5 05/24/10 05/24/10 16:35 1011
trans-1,2-Dichloroethene	ND ug/L	1 1 0.5 05/24/10 05/24/10 16:35 1011
Methyl-t-butyl ether	ND ug/L	1 1 0.5 05/24/10 05/24/10 16:35 1011
1,1-Dichloroethane	ND ug/L	1 1 0.5 05/24/10 05/24/10 16:35 1011
2-Butanone	ND ug/L	10 1 5 05/24/10 05/24/10 16:35 1011
cis-1,2-Dichloroethene	ND ug/L	1 1 0.5 05/24/10 05/24/10 16:35 1011
Chloroform	ND ug/L	1 1 0.5 05/24/10 05/24/10 16:35 1011
1,1,1-Trichloroethane	ND ug/L	1 1 0.5 05/24/10 05/24/10 16:35 1011
1,2-Dichloroethane	ND ug/L	1 1 0.5 05/24/10 05/24/10 16:35 1011
Carbon Tetrachloride	ND ug/L	1 1 0.5 05/24/10 05/24/10 16:35 1011
Benzene	ND ug/L	1 1 0.5 05/24/10 05/24/10 16:35 1011
1,2-Dichloropropane	ND ug/L	1 1 0.5 05/24/10 05/24/10 16:35 1011
Trichloroethene	ND ug/L	1 1 0.5 05/24/10 05/24/10 16:35 1011
Carbon Disulfide	ND ug/L	10 1 5 05/24/10 05/24/10 16:35 1011
Bromodichloromethane	ND ug/L	1 1 0.5 05/24/10 05/24/10 16:35 1011
cis-1,3-Dichloropropene	ND ug/L	1 1 0.5 05/24/10 05/24/10 16:35 1011
4-Methyl-2-Pentanone	ND ug/L	5 1 2.5 05/24/10 05/24/10 16:35 1011
trans-1,3-Dichloropropene	ND ug/L	1 1 0.5 05/24/10 05/24/10 16:35 1011
1,1,2-Trichloroethane	ND ug/L	1 1 0.5 05/24/10 05/24/10 16:35 1011
Toluene	ND ug/L	1 1 0.5 05/24/10 05/24/10 16:35 1011
1,2-Dibromoethane	ND ug/L	1 1 0.5 05/24/10 05/24/10 16:35 1011
Dibromochloromethane	ND ug/L	1 1 0.5 05/24/10 05/24/10 16:35 1011
Bromoform	ND ug/L	5 1 2.5 05/24/10 05/24/10 16:35 1011
Tetrachloroethene	ND ug/L	1 1 0.5 05/24/10 05/24/10 16:35 1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-SW-SW MS/MSD	Date/Time Sampled: 05/20/2010 14:10	PSS Sample ID: 10052118-001
Matrix: SURFACE WATER	Date/Time Received: 05/21/2010 15:40	

VCP Volatile Organic Compounds	Analytical Method: SW846 8260B	Preparation Method: SW846 5030B
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	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Chlorobenzene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 16:35	1011	
Ethylbenzene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 16:35	1011	
m,p-Xylenes	ND	ug/L	2	1	1	05/24/10	05/24/10 16:35	1011	
Styrene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 16:35	1011	
1,1,2,2-Tetrachloroethane	ND	ug/L	1	1	0.5	05/24/10	05/24/10 16:35	1011	
o-Xylene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 16:35	1011	
Isopropylbenzene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 16:35	1011	
n-Propylbenzene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 16:35	1011	
1,3,5-Trimethylbenzene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 16:35	1011	
1,2,4-Trimethylbenzene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 16:35	1011	
n-Butylbenzene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 16:35	1011	
1,2-Dibromo-3-Chloropropane	ND	ug/L	10	1	5	05/24/10	05/24/10 16:35	1011	

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CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-SW-SW MS/MSD	Date/Time Sampled: 05/20/2010 14:10	PSS Sample ID: 10052118-001
Matrix: SURFACE WATER	Date/Time Received: 05/21/2010 15:40	

VCP Semivolatile Organic Compounds	Analytical Method: SW846 8270C	Preparation Method: SW846 3510C
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	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5	1	2.5	05/26/10	05/28/10 02:45	1014	
Acenaphthylene	ND	ug/L	5	1	2.5	05/26/10	05/28/10 02:45	1014	
Anthracene	ND	ug/L	5	1	2.5	05/26/10	05/28/10 02:45	1014	
Benzo(a)anthracene	ND	ug/L	0.5	1	0.5	05/26/10	05/28/10 02:45	1014	
Benzo(a)pyrene	ND	ug/L	0.5	1	0.5	05/26/10	05/28/10 02:45	1014	
Benzo(b)fluoranthene	ND	ug/L	0.5	1	0.5	05/26/10	05/28/10 02:45	1014	
Benzo(g,h,i)perylene	ND	ug/L	5	1	2.5	05/26/10	05/28/10 02:45	1014	
Benzo(k)fluoranthene	ND	ug/L	0.5	1	0.5	05/26/10	05/28/10 02:45	1014	
bis(2-chloroethyl) ether	ND	ug/L	0.5	1	0.5	05/26/10	05/28/10 02:45	1014	
bis(2-chloroisopropyl) ether	ND	ug/L	0.5	1	0.5	05/26/10	05/28/10 02:45	1014	
bis(2-ethylhexyl) phthalate	ND	ug/L	5	1	2.5	05/26/10	05/28/10 02:45	1014	
Di-n-butyl phthalate	ND	ug/L	5	1	2.5	05/26/10	05/28/10 02:45	1014	
Carbazole	ND	ug/L	5	1	2.5	05/26/10	05/28/10 02:45	1014	
4-Chloroaniline	ND	ug/L	10	1	5	05/26/10	05/28/10 02:45	1014	
2-Chloronaphthalene	ND	ug/L	5	1	2.5	05/26/10	05/28/10 02:45	1014	
2-Chlorophenol	ND	ug/L	2	1	2	05/26/10	05/28/10 02:45	1014	
Chrysene	ND	ug/L	2	1	1	05/26/10	05/28/10 02:45	1014	
Dibenz(a,h)Anthracene	ND	ug/L	0.5	1	0.5	05/26/10	05/28/10 02:45	1014	
Dibenzofuran	ND	ug/L	2	1	1	05/26/10	05/28/10 02:45	1014	
1,2-Dichlorobenzene	ND	ug/L	5	1	2.5	05/26/10	05/28/10 02:45	1014	
1,3-Dichlorobenzene	ND	ug/L	1	1	0.5	05/26/10	05/28/10 02:45	1014	
1,4-Dichlorobenzene	ND	ug/L	0.5	1	0.5	05/26/10	05/28/10 02:45	1014	
3,3-Dichlorobenzidine	ND	ug/L	0.5	1	0.5	05/26/10	05/28/10 02:45	1014	
2,4-Dichlorophenol	ND	ug/L	5	1	2.5	05/26/10	05/28/10 02:45	1014	
Diethyl phthalate	ND	ug/L	5	1	2.5	05/26/10	05/28/10 02:45	1014	
2,4-Dimethylphenol	ND	ug/L	5	1	2.5	05/26/10	05/28/10 02:45	1014	
2,4-Dinitrophenol	ND	ug/L	5	1	2.5	05/26/10	05/28/10 02:45	1014	
2,4-Dinitrotoluene	ND	ug/L	5	1	2.5	05/26/10	05/28/10 02:45	1014	
2,6-Dinitrotoluene	ND	ug/L	2	1	1	05/26/10	05/28/10 02:45	1014	
Fluoranthene	ND	ug/L	5	1	2.5	05/26/10	05/28/10 02:45	1014	

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-SW-SW MS/MSD	Date/Time Sampled: 05/20/2010 14:10	PSS Sample ID: 10052118-001
Matrix: SURFACE WATER	Date/Time Received: 05/21/2010 15:40	

VCP Semivolatile Organic Compounds	Analytical Method: SW846 8270C	Preparation Method: SW846 3510C
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	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Fluorene	ND	ug/L	5	1	2.5	05/26/10	05/28/10 02:45	1014	
Hexachlorobenzene	ND	ug/L	1	1	0.5	05/26/10	05/28/10 02:45	1014	
Hexachlorobutadiene	ND	ug/L	5	1	2.5	05/26/10	05/28/10 02:45	1014	
Hexachlorocyclopentadiene	ND	ug/L	5	1	2.5	05/26/10	05/28/10 02:45	1014	
Hexachloroethane	ND	ug/L	2	1	1	05/26/10	05/28/10 02:45	1014	
Indeno(1,2,3-c,d)Pyrene	ND	ug/L	0.5	1	0.5	05/26/10	05/28/10 02:45	1014	
Isophorone	ND	ug/L	5	1	2.5	05/26/10	05/28/10 02:45	1014	
2-Methylnaphthalene	ND	ug/L	2	1	1	05/26/10	05/28/10 02:45	1014	
2-Methyl phenol	ND	ug/L	5	1	2.5	05/26/10	05/28/10 02:45	1014	
3&4-Methylphenol	ND	ug/L	5	1	2.5	05/26/10	05/28/10 02:45	1014	
Naphthalene	ND	ug/L	0.5	1	0.5	05/26/10	05/28/10 02:45	1014	
Nitrobenzene	ND	ug/L	2	1	1	05/26/10	05/28/10 02:45	1014	
N-Nitrosodi-n-propyl amine	ND	ug/L	0.5	1	0.5	05/26/10	05/28/10 02:45	1014	
N-Nitrosodiphenylamine	ND	ug/L	5	1	2.5	05/26/10	05/28/10 02:45	1014	
Pentachlorophenol	ND	ug/L	2	1	2	05/26/10	05/28/10 02:45	1014	
Phenanthrene	ND	ug/L	5	1	2.5	05/26/10	05/28/10 02:45	1014	
Phenol	ND	ug/L	5	1	2.5	05/26/10	05/28/10 02:45	1014	
Pyrene	ND	ug/L	5	1	2.5	05/26/10	05/28/10 02:45	1014	
1,2,4-Trichlorobenzene	ND	ug/L	5	1	2.5	05/26/10	05/28/10 02:45	1014	
2,4,6-Trichlorophenol	ND	ug/L	5	1	2.5	05/26/10	05/28/10 02:45	1014	
2,4,5-Trichlorophenol	ND	ug/L	5	1	2.5	05/26/10	05/28/10 02:45	1014	
Bis(2-ethylhexyl)adipate	ND	ug/L	5	1	2.5	05/26/10	05/28/10 02:45	1014	

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-SW-NW	Date/Time Sampled: 05/20/2010 13:50	PSS Sample ID: 10052118-002
Matrix: SURFACE WATER	Date/Time Received: 05/21/2010 15:40	

PP MDE Metals	Analytical Method: SW846 6020A	Preparation Method: SW846 3010A
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	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	05/25/10	05/25/10 17:35	1033
Arsenic	0.7	ug/L	1.0	J	1	0.5	05/25/10	05/28/10 11:04	1033
Beryllium	ND	ug/L	0.5		1	0.5	05/25/10	05/25/10 17:35	1033
Cadmium	ND	ug/L	1.0		1	0.5	05/25/10	05/25/10 17:35	1033
Chromium	ND	ug/L	1.0		1	0.5	05/25/10	05/25/10 17:35	1033
Copper	1.0	ug/L	1.0		1	0.5	05/25/10	05/28/10 11:04	1033
Lead	ND	ug/L	1.0		1	0.5	05/25/10	05/25/10 17:35	1033
Mercury	ND	ug/L	0.20		1	0.1	05/25/10	05/25/10 17:35	1033
Nickel	2.2	ug/L	1.0		1	0.5	05/25/10	05/25/10 17:35	1033
Selenium	ND	ug/L	1.0		1	0.5	05/25/10	05/25/10 17:35	1033
Silver	ND	ug/L	1.0		1	0.5	05/25/10	05/25/10 17:35	1033
Thallium	ND	ug/L	1.0		1	0.5	05/25/10	05/25/10 17:35	1033
Zinc	ND	ug/L	20		1	10	05/25/10	05/25/10 17:35	1033

Total Petroleum Hydrocarbons - DRO	Analytical Method: SW846 8015C	Preparation Method: SW846 3510C
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	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	0.055	mg/L	0.040		1	0.04	05/24/10	05/24/10 12:57	1040

Total Petroleum Hydrocarbons-GRO	Analytical Method: SW846 8015C	Preparation Method: SW846 5030B
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	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	40		1	40	05/24/10	05/24/10 12:47	1035

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CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-SW-NW	Date/Time Sampled: 05/20/2010 13:50		PSS Sample ID: 10052118-002						
Matrix: SURFACE WATER	Date/Time Received: 05/21/2010 15:40								
VCP Organochlorine Pesticides	Analytical Method: SW846 8081B				Preparation Method: SW846 3510C				
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Aldrin	ND	ug/L	0.04		1	0.04	05/24/10	05/25/10 14:23	1029
alpha-BHC	ND	ug/L	0.04		1	0.04	05/24/10	05/25/10 14:23	1029
beta-BHC	ND	ug/L	0.04		1	0.04	05/24/10	05/25/10 14:23	1029
delta-BHC	ND	ug/L	0.08		1	0.04	05/24/10	05/25/10 14:23	1029
alpha-Chlordane	ND	ug/L	0.08		1	0.04	05/24/10	05/25/10 14:23	1029
gamma-Chlordane	ND	ug/L	0.08		1	0.04	05/24/10	05/25/10 14:23	1029
4,4-DDD	ND	ug/L	0.08		1	0.04	05/24/10	05/25/10 14:23	1029
4,4-DDE	ND	ug/L	0.08		1	0.04	05/24/10	05/25/10 14:23	1029
4,4-DDT	ND	ug/L	0.08		1	0.04	05/24/10	05/25/10 14:23	1029
Dieldrin	ND	ug/L	0.04		1	0.04	05/24/10	05/25/10 14:23	1029
Endosulfan I	ND	ug/L	0.08		1	0.04	05/24/10	05/25/10 14:23	1029
Endosulfan II	ND	ug/L	0.08		1	0.04	05/24/10	05/25/10 14:23	1029
Endosulfan sulfate	ND	ug/L	0.08		1	0.04	05/24/10	05/25/10 14:23	1029
Endrin	ND	ug/L	0.08		1	0.04	05/24/10	05/25/10 14:23	1029
Endrin aldehyde	ND	ug/L	0.08		1	0.04	05/24/10	05/25/10 14:23	1029
Endrin ketone	ND	ug/L	0.08		1	0.04	05/24/10	05/25/10 14:23	1029
gamma-BHC (Lindane)	ND	ug/L	0.08		1	0.04	05/24/10	05/25/10 14:23	1029
Heptachlor	ND	ug/L	0.08		1	0.04	05/24/10	05/25/10 14:23	1029
Heptachlor epoxide	ND	ug/L	0.08		1	0.04	05/24/10	05/25/10 14:23	1029
Methoxychlor	ND	ug/L	0.08		1	0.04	05/24/10	05/25/10 14:23	1029
Toxaphene	ND	ug/L		2	1	1	05/24/10	05/25/10 14:23	1029

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-SW-NW	Date/Time Sampled: 05/20/2010 13:50	PSS Sample ID: 10052118-002
Matrix: SURFACE WATER	Date/Time Received: 05/21/2010 15:40	

VCP Polychlorinated Biphenyls Analytical Method: SW846 8082A Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	ug/L	0.5		1	0.5	05/24/10	05/25/10 11:41	1029
PCB-1221	ND	ug/L	0.5		1	0.5	05/24/10	05/25/10 11:41	1029
PCB-1232	ND	ug/L	0.5		1	0.5	05/24/10	05/25/10 11:41	1029
PCB-1242	ND	ug/L	0.5		1	0.5	05/24/10	05/25/10 11:41	1029
PCB-1248	ND	ug/L	0.5		1	0.5	05/24/10	05/25/10 11:41	1029
PCB-1254	ND	ug/L	0.5		1	0.5	05/24/10	05/25/10 11:41	1029
PCB-1260	ND	ug/L	0.5		1	0.5	05/24/10	05/25/10 11:41	1029

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CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-SW-NW	Date/Time Sampled: 05/20/2010 13:50			PSS Sample ID: 10052118-002					
Matrix: SURFACE WATER	Date/Time Received: 05/21/2010 15:40								
VCP Volatile Organic Compounds	Analytical Method: SW846 8260B				Preparation Method: SW846 5030B				
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Chloromethane	ND	ug/L	1	1	1	0.5	05/24/10	05/24/10 17:03	1011
Vinyl Chloride	ND	ug/L	1	1	1	0.5	05/24/10	05/24/10 17:03	1011
Bromomethane	ND	ug/L	1	1	1	0.5	05/24/10	05/24/10 17:03	1011
Chloroethane	ND	ug/L	1	1	1	0.5	05/24/10	05/24/10 17:03	1011
Acetone	ND	ug/L	10	1	1	5	05/24/10	05/24/10 17:03	1011
1,1-Dichloroethene	ND	ug/L	1	1	1	0.5	05/24/10	05/24/10 17:03	1011
Methylene Chloride	ND	ug/L	1	1	1	0.5	05/24/10	05/24/10 17:03	1011
trans-1,2-Dichloroethene	ND	ug/L	1	1	1	0.5	05/24/10	05/24/10 17:03	1011
Methyl-t-butyl ether	ND	ug/L	1	1	1	0.5	05/24/10	05/24/10 17:03	1011
1,1-Dichloroethane	ND	ug/L	1	1	1	0.5	05/24/10	05/24/10 17:03	1011
2-Butanone	ND	ug/L	10	1	1	5	05/24/10	05/24/10 17:03	1011
cis-1,2-Dichloroethene	ND	ug/L	1	1	1	0.5	05/24/10	05/24/10 17:03	1011
Chloroform	ND	ug/L	1	1	1	0.5	05/24/10	05/24/10 17:03	1011
1,1,1-Trichloroethane	ND	ug/L	1	1	1	0.5	05/24/10	05/24/10 17:03	1011
1,2-Dichloroethane	ND	ug/L	1	1	1	0.5	05/24/10	05/24/10 17:03	1011
Carbon Tetrachloride	ND	ug/L	1	1	1	0.5	05/24/10	05/24/10 17:03	1011
Benzene	ND	ug/L	1	1	1	0.5	05/24/10	05/24/10 17:03	1011
1,2-Dichloropropane	ND	ug/L	1	1	1	0.5	05/24/10	05/24/10 17:03	1011
Trichloroethene	ND	ug/L	1	1	1	0.5	05/24/10	05/24/10 17:03	1011
Carbon Disulfide	ND	ug/L	10	1	1	5	05/24/10	05/24/10 17:03	1011
Bromodichloromethane	ND	ug/L	1	1	1	0.5	05/24/10	05/24/10 17:03	1011
cis-1,3-Dichloropropene	ND	ug/L	1	1	1	0.5	05/24/10	05/24/10 17:03	1011
4-Methyl-2-Pentanone	ND	ug/L	5	1	1	2.5	05/24/10	05/24/10 17:03	1011
trans-1,3-Dichloropropene	ND	ug/L	1	1	1	0.5	05/24/10	05/24/10 17:03	1011
1,1,2-Trichloroethane	ND	ug/L	1	1	1	0.5	05/24/10	05/24/10 17:03	1011
Toluene	ND	ug/L	1	1	1	0.5	05/24/10	05/24/10 17:03	1011
1,2-Dibromoethane	ND	ug/L	1	1	1	0.5	05/24/10	05/24/10 17:03	1011
Dibromochloromethane	ND	ug/L	1	1	1	0.5	05/24/10	05/24/10 17:03	1011
Bromoform	ND	ug/L	5	1	1	2.5	05/24/10	05/24/10 17:03	1011
Tetrachloroethene	ND	ug/L	1	1	1	0.5	05/24/10	05/24/10 17:03	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-SW-NW	Date/Time Sampled: 05/20/2010 13:50	PSS Sample ID: 10052118-002
Matrix: SURFACE WATER	Date/Time Received: 05/21/2010 15:40	

VCP Volatile Organic Compounds	Analytical Method: SW846 8260B	Preparation Method: SW846 5030B
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	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Chlorobenzene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 17:03	1011	
Ethylbenzene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 17:03	1011	
m,p-Xylenes	ND	ug/L	2	1	1	05/24/10	05/24/10 17:03	1011	
Styrene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 17:03	1011	
1,1,2,2-Tetrachloroethane	ND	ug/L	1	1	0.5	05/24/10	05/24/10 17:03	1011	
o-Xylene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 17:03	1011	
Isopropylbenzene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 17:03	1011	
n-Propylbenzene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 17:03	1011	
1,3,5-Trimethylbenzene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 17:03	1011	
1,2,4-Trimethylbenzene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 17:03	1011	
n-Butylbenzene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 17:03	1011	
1,2-Dibromo-3-Chloropropane	ND	ug/L	10	1	5	05/24/10	05/24/10 17:03	1011	

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CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-SW-NW	Date/Time Sampled: 05/20/2010 13:50				PSS Sample ID: 10052118-002				
Matrix: SURFACE WATER	Date/Time Received: 05/21/2010 15:40								
VCP Semivolatile Organic Compounds	Analytical Method: SW846 8270C				Preparation Method: SW846 3510C				
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5	1	2.5	05/26/10	05/28/10 04:13	1014	
Acenaphthylene	ND	ug/L	5	1	2.5	05/26/10	05/28/10 04:13	1014	
Anthracene	ND	ug/L	5	1	2.5	05/26/10	05/28/10 04:13	1014	
Benzo(a)anthracene	ND	ug/L	0.5	1	0.5	05/26/10	05/28/10 04:13	1014	
Benzo(a)pyrene	ND	ug/L	0.5	1	0.5	05/26/10	05/28/10 04:13	1014	
Benzo(b)fluoranthene	ND	ug/L	0.5	1	0.5	05/26/10	05/28/10 04:13	1014	
Benzo(g,h,i)perylene	ND	ug/L	5	1	2.5	05/26/10	05/28/10 04:13	1014	
Benzo(k)fluoranthene	ND	ug/L	0.5	1	0.5	05/26/10	05/28/10 04:13	1014	
bis(2-chloroethyl) ether	ND	ug/L	0.5	1	0.5	05/26/10	05/28/10 04:13	1014	
bis(2-chloroisopropyl) ether	ND	ug/L	0.5	1	0.5	05/26/10	05/28/10 04:13	1014	
bis(2-ethylhexyl) phthalate	ND	ug/L	5	1	2.5	05/26/10	05/28/10 04:13	1014	
Di-n-butyl phthalate	ND	ug/L	5	1	2.5	05/26/10	05/28/10 04:13	1014	
Carbazole	ND	ug/L	5	1	2.5	05/26/10	05/28/10 04:13	1014	
4-Chloroaniline	ND	ug/L	10	1	5	05/26/10	05/28/10 04:13	1014	
2-Chloronaphthalene	ND	ug/L	5	1	2.5	05/26/10	05/28/10 04:13	1014	
2-Chlorophenol	ND	ug/L	2	1	2	05/26/10	05/28/10 04:13	1014	
Chrysene	ND	ug/L	2	1	1	05/26/10	05/28/10 04:13	1014	
Dibenz(a,h)Anthracene	ND	ug/L	0.5	1	0.5	05/26/10	05/28/10 04:13	1014	
Dibenzofuran	ND	ug/L	2	1	1	05/26/10	05/28/10 04:13	1014	
1,2-Dichlorobenzene	ND	ug/L	5	1	2.5	05/26/10	05/28/10 04:13	1014	
1,3-Dichlorobenzene	ND	ug/L	1	1	0.5	05/26/10	05/28/10 04:13	1014	
1,4-Dichlorobenzene	ND	ug/L	0.5	1	0.5	05/26/10	05/28/10 04:13	1014	
3,3-Dichlorobenzidine	ND	ug/L	0.5	1	0.5	05/26/10	05/28/10 04:13	1014	
2,4-Dichlorophenol	ND	ug/L	5	1	2.5	05/26/10	05/28/10 04:13	1014	
Diethyl phthalate	ND	ug/L	5	1	2.5	05/26/10	05/28/10 04:13	1014	
2,4-Dimethylphenol	ND	ug/L	5	1	2.5	05/26/10	05/28/10 04:13	1014	
2,4-Dinitrophenol	ND	ug/L	5	1	2.5	05/26/10	05/28/10 04:13	1014	
2,4-Dinitrotoluene	ND	ug/L	5	1	2.5	05/26/10	05/28/10 04:13	1014	
2,6-Dinitrotoluene	ND	ug/L	2	1	1	05/26/10	05/28/10 04:13	1014	
Fluoranthene	ND	ug/L	5	1	2.5	05/26/10	05/28/10 04:13	1014	

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-SW-NW	Date/Time Sampled: 05/20/2010 13:50	PSS Sample ID: 10052118-002
Matrix: SURFACE WATER	Date/Time Received: 05/21/2010 15:40	

VCP Semivolatile Organic Compounds	Analytical Method: SW846 8270C	Preparation Method: SW846 3510C
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	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Fluorene	ND	ug/L	5	1	2.5	05/26/10	05/28/10 04:13	1014	
Hexachlorobenzene	ND	ug/L	1	1	0.5	05/26/10	05/28/10 04:13	1014	
Hexachlorobutadiene	ND	ug/L	5	1	2.5	05/26/10	05/28/10 04:13	1014	
Hexachlorocyclopentadiene	ND	ug/L	5	1	2.5	05/26/10	05/28/10 04:13	1014	
Hexachloroethane	ND	ug/L	2	1	1	05/26/10	05/28/10 04:13	1014	
Indeno(1,2,3-c,d)Pyrene	ND	ug/L	0.5	1	0.5	05/26/10	05/28/10 04:13	1014	
Isophorone	ND	ug/L	5	1	2.5	05/26/10	05/28/10 04:13	1014	
2-Methylnaphthalene	ND	ug/L	2	1	1	05/26/10	05/28/10 04:13	1014	
2-Methyl phenol	ND	ug/L	5	1	2.5	05/26/10	05/28/10 04:13	1014	
3&4-Methylphenol	ND	ug/L	5	1	2.5	05/26/10	05/28/10 04:13	1014	
Naphthalene	ND	ug/L	0.5	1	0.5	05/26/10	05/28/10 04:13	1014	
Nitrobenzene	ND	ug/L	2	1	1	05/26/10	05/28/10 04:13	1014	
N-Nitrosodi-n-propyl amine	ND	ug/L	0.5	1	0.5	05/26/10	05/28/10 04:13	1014	
N-Nitrosodiphenylamine	ND	ug/L	5	1	2.5	05/26/10	05/28/10 04:13	1014	
Pentachlorophenol	ND	ug/L	2	1	2	05/26/10	05/28/10 04:13	1014	
Phenanthrene	ND	ug/L	5	1	2.5	05/26/10	05/28/10 04:13	1014	
Phenol	ND	ug/L	5	1	2.5	05/26/10	05/28/10 04:13	1014	
Pyrene	ND	ug/L	5	1	2.5	05/26/10	05/28/10 04:13	1014	
1,2,4-Trichlorobenzene	ND	ug/L	5	1	2.5	05/26/10	05/28/10 04:13	1014	
2,4,6-Trichlorophenol	ND	ug/L	5	1	2.5	05/26/10	05/28/10 04:13	1014	
2,4,5-Trichlorophenol	ND	ug/L	5	1	2.5	05/26/10	05/28/10 04:13	1014	
Bis(2-ethylhexyl)adipate	ND	ug/L	5	1	2.5	05/26/10	05/28/10 04:13	1014	

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CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-SW-SE	Date/Time Sampled: 05/20/2010 14:50	PSS Sample ID: 10052118-003
Matrix: SURFACE WATER	Date/Time Received: 05/21/2010 15:40	

PP MDE Metals	Analytical Method: SW846 6020A					Preparation Method: SW846 3010A			
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	05/25/10	05/25/10 17:41	1033
Arsenic	0.7	ug/L	1.0	J	1	0.5	05/25/10	05/28/10 11:10	1033
Beryllium	ND	ug/L	0.5		1	0.5	05/25/10	05/25/10 17:41	1033
Cadmium	ND	ug/L	1.0		1	0.5	05/25/10	05/25/10 17:41	1033
Chromium	ND	ug/L	1.0		1	0.5	05/25/10	05/25/10 17:41	1033
Copper	1.3	ug/L	1.0		1	0.5	05/25/10	05/28/10 11:10	1033
Lead	ND	ug/L	1.0		1	0.5	05/25/10	05/25/10 17:41	1033
Mercury	ND	ug/L	0.20		1	0.1	05/25/10	05/25/10 17:41	1033
Nickel	1.9	ug/L	1.0		1	0.5	05/25/10	05/25/10 17:41	1033
Selenium	ND	ug/L	1.0		1	0.5	05/25/10	05/25/10 17:41	1033
Silver	ND	ug/L	1.0		1	0.5	05/25/10	05/25/10 17:41	1033
Thallium	ND	ug/L	1.0		1	0.5	05/25/10	05/25/10 17:41	1033
Zinc	ND	ug/L	20		1	10	05/25/10	05/25/10 17:41	1033

Total Petroleum Hydrocarbons - DRO	Analytical Method: SW846 8015C					Preparation Method: SW846 3510C			
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst

TPH-DRO (Diesel Range Organics)	0.070	mg/L	0.040		1	0.04	05/24/10	05/24/10 14:23	1040
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Total Petroleum Hydrocarbons-GRO	Analytical Method: SW846 8015C					Preparation Method: SW846 5030B			
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst

TPH-GRO (Gasoline Range Organics)	ND	ug/L	40		1	40	05/24/10	05/24/10 13:13	1035
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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-SW-SE	Date/Time Sampled: 05/20/2010 14:50		PSS Sample ID: 10052118-003						
Matrix: SURFACE WATER	Date/Time Received: 05/21/2010 15:40								
VCP Organochlorine Pesticides	Analytical Method: SW846 8081B				Preparation Method: SW846 3510C				
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Aldrin	ND	ug/L	0.04		1	0.04	05/24/10	05/25/10 14:51	1029
alpha-BHC	ND	ug/L	0.04		1	0.04	05/24/10	05/25/10 14:51	1029
beta-BHC	ND	ug/L	0.04		1	0.04	05/24/10	05/25/10 14:51	1029
delta-BHC	ND	ug/L	0.08		1	0.04	05/24/10	05/25/10 14:51	1029
alpha-Chlordane	ND	ug/L	0.08		1	0.04	05/24/10	05/25/10 14:51	1029
gamma-Chlordane	ND	ug/L	0.08		1	0.04	05/24/10	05/25/10 14:51	1029
4,4-DDD	ND	ug/L	0.08		1	0.04	05/24/10	05/25/10 14:51	1029
4,4-DDE	ND	ug/L	0.08		1	0.04	05/24/10	05/25/10 14:51	1029
4,4-DDT	ND	ug/L	0.08		1	0.04	05/24/10	05/25/10 14:51	1029
Dieldrin	ND	ug/L	0.04		1	0.04	05/24/10	05/25/10 14:51	1029
Endosulfan I	ND	ug/L	0.08		1	0.04	05/24/10	05/25/10 14:51	1029
Endosulfan II	ND	ug/L	0.08		1	0.04	05/24/10	05/25/10 14:51	1029
Endosulfan sulfate	ND	ug/L	0.08		1	0.04	05/24/10	05/25/10 14:51	1029
Endrin	ND	ug/L	0.08		1	0.04	05/24/10	05/25/10 14:51	1029
Endrin aldehyde	ND	ug/L	0.08		1	0.04	05/24/10	05/25/10 14:51	1029
Endrin ketone	ND	ug/L	0.08		1	0.04	05/24/10	05/25/10 14:51	1029
Heptachlor	ND	ug/L	0.08		1	0.04	05/24/10	05/25/10 14:51	1029
gamma-BHC (Lindane)	ND	ug/L	0.08		1	0.04	05/24/10	05/25/10 14:51	1029
Heptachlor epoxide	ND	ug/L	0.08		1	0.04	05/24/10	05/25/10 14:51	1029
Methoxychlor	ND	ug/L	0.08		1	0.04	05/24/10	05/25/10 14:51	1029
Toxaphene	ND	ug/L		2	1	1	05/24/10	05/25/10 14:51	1029

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-SW-SE	Date/Time Sampled: 05/20/2010 14:50	PSS Sample ID: 10052118-003	
Matrix: SURFACE WATER	Date/Time Received: 05/21/2010 15:40		

VCP Polychlorinated Biphenyls	Analytical Method: SW846 8082A				Preparation Method: SW846 3510C			
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	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	ug/L	0.5		1	0.5	05/24/10	05/25/10 12:39	1029
PCB-1221	ND	ug/L	0.5		1	0.5	05/24/10	05/25/10 12:39	1029
PCB-1232	ND	ug/L	0.5		1	0.5	05/24/10	05/25/10 12:39	1029
PCB-1242	ND	ug/L	0.5		1	0.5	05/24/10	05/25/10 12:39	1029
PCB-1248	ND	ug/L	0.5		1	0.5	05/24/10	05/25/10 12:39	1029
PCB-1254	ND	ug/L	0.5		1	0.5	05/24/10	05/25/10 12:39	1029
PCB-1260	ND	ug/L	0.5		1	0.5	05/24/10	05/25/10 12:39	1029

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CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-SW-SE	Date/Time Sampled: 05/20/2010 14:50				PSS Sample ID: 10052118-003				
Matrix: SURFACE WATER	Date/Time Received: 05/21/2010 15:40								
VCP Volatile Organic Compounds	Analytical Method: SW846 8260B				Preparation Method: SW846 5030B				
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Chloromethane	ND	ug/L	1	1	0.5	05/24/10	05/24/10 17:30	1011	
Vinyl Chloride	ND	ug/L	1	1	0.5	05/24/10	05/24/10 17:30	1011	
Bromomethane	ND	ug/L	1	1	0.5	05/24/10	05/24/10 17:30	1011	
Chloroethane	ND	ug/L	1	1	0.5	05/24/10	05/24/10 17:30	1011	
Acetone	ND	ug/L	10	1	5	05/24/10	05/24/10 17:30	1011	
1,1-Dichloroethene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 17:30	1011	
Methylene Chloride	ND	ug/L	1	1	0.5	05/24/10	05/24/10 17:30	1011	
trans-1,2-Dichloroethene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 17:30	1011	
Methyl-t-butyl ether	ND	ug/L	1	1	0.5	05/24/10	05/24/10 17:30	1011	
1,1-Dichloroethane	ND	ug/L	1	1	0.5	05/24/10	05/24/10 17:30	1011	
2-Butanone	ND	ug/L	10	1	5	05/24/10	05/24/10 17:30	1011	
cis-1,2-Dichloroethene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 17:30	1011	
Chloroform	ND	ug/L	1	1	0.5	05/24/10	05/24/10 17:30	1011	
1,1,1-Trichloroethane	ND	ug/L	1	1	0.5	05/24/10	05/24/10 17:30	1011	
1,2-Dichloroethane	ND	ug/L	1	1	0.5	05/24/10	05/24/10 17:30	1011	
Carbon Tetrachloride	ND	ug/L	1	1	0.5	05/24/10	05/24/10 17:30	1011	
Benzene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 17:30	1011	
1,2-Dichloropropane	ND	ug/L	1	1	0.5	05/24/10	05/24/10 17:30	1011	
Trichloroethene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 17:30	1011	
Carbon Disulfide	ND	ug/L	10	1	5	05/24/10	05/24/10 17:30	1011	
Bromodichloromethane	ND	ug/L	1	1	0.5	05/24/10	05/24/10 17:30	1011	
cis-1,3-Dichloropropene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 17:30	1011	
4-Methyl-2-Pentanone	ND	ug/L	5	1	2.5	05/24/10	05/24/10 17:30	1011	
trans-1,3-Dichloropropene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 17:30	1011	
1,1,2-Trichloroethane	ND	ug/L	1	1	0.5	05/24/10	05/24/10 17:30	1011	
Toluene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 17:30	1011	
1,2-Dibromoethane	ND	ug/L	1	1	0.5	05/24/10	05/24/10 17:30	1011	
Dibromochloromethane	ND	ug/L	1	1	0.5	05/24/10	05/24/10 17:30	1011	
Bromoform	ND	ug/L	5	1	2.5	05/24/10	05/24/10 17:30	1011	
Tetrachloroethene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 17:30	1011	

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-SW-SE	Date/Time Sampled: 05/20/2010 14:50	PSS Sample ID: 10052118-003
Matrix: SURFACE WATER	Date/Time Received: 05/21/2010 15:40	

VCP Volatile Organic Compounds		Analytical Method: SW846 8260B			Preparation Method: SW846 5030B				
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Chlorobenzene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 17:30	1011	
Ethylbenzene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 17:30	1011	
m,p-Xylenes	ND	ug/L	2	1	1	05/24/10	05/24/10 17:30	1011	
Styrene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 17:30	1011	
1,1,2,2-Tetrachloroethane	ND	ug/L	1	1	0.5	05/24/10	05/24/10 17:30	1011	
o-Xylene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 17:30	1011	
Isopropylbenzene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 17:30	1011	
n-Propylbenzene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 17:30	1011	
1,3,5-Trimethylbenzene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 17:30	1011	
1,2,4-Trimethylbenzene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 17:30	1011	
n-Butylbenzene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 17:30	1011	
1,2-Dibromo-3-Chloropropane	ND	ug/L	10	1	5	05/24/10	05/24/10 17:30	1011	

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No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-SW-SE	Date/Time Sampled: 05/20/2010 14:50				PSS Sample ID: 10052118-003				
Matrix: SURFACE WATER	Date/Time Received: 05/21/2010 15:40								
VCP Semivolatile Organic Compounds	Analytical Method: SW846 8270C				Preparation Method: SW846 3510C				
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	7	1	3.6	05/26/10	05/28/10 04:42	1014	
Acenaphthylene	ND	ug/L	7	1	3.6	05/26/10	05/28/10 04:42	1014	
Anthracene	ND	ug/L	7	1	3.6	05/26/10	05/28/10 04:42	1014	
Benzo(a)anthracene	ND	ug/L	0.7	1	0.7	05/26/10	05/28/10 04:42	1014	
Benzo(a)pyrene	ND	ug/L	0.7	1	0.7	05/26/10	05/28/10 04:42	1014	
Benzo(b)fluoranthene	ND	ug/L	0.7	1	0.7	05/26/10	05/28/10 04:42	1014	
Benzo(g,h,i)perylene	ND	ug/L	7	1	3.6	05/26/10	05/28/10 04:42	1014	
Benzo(k)fluoranthene	ND	ug/L	0.7	1	0.7	05/26/10	05/28/10 04:42	1014	
bis(2-chloroethyl) ether	ND	ug/L	0.7	1	0.7	05/26/10	05/28/10 04:42	1014	
bis(2-chloroisopropyl) ether	ND	ug/L	0.7	1	0.7	05/26/10	05/28/10 04:42	1014	
bis(2-ethylhexyl) phthalate	ND	ug/L	7	1	3.6	05/26/10	05/28/10 04:42	1014	
Di-n-butyl phthalate	ND	ug/L	7	1	3.6	05/26/10	05/28/10 04:42	1014	
Carbazole	ND	ug/L	7	1	3.6	05/26/10	05/28/10 04:42	1014	
4-Chloroaniline	ND	ug/L	14	1	7.1	05/26/10	05/28/10 04:42	1014	
2-Chloronaphthalene	ND	ug/L	7	1	3.6	05/26/10	05/28/10 04:42	1014	
2-Chlorophenol	ND	ug/L	3	1	2.9	05/26/10	05/28/10 04:42	1014	
Chrysene	ND	ug/L	3	1	1.4	05/26/10	05/28/10 04:42	1014	
Dibenz(a,h)Anthracene	ND	ug/L	0.7	1	0.7	05/26/10	05/28/10 04:42	1014	
Dibenzofuran	ND	ug/L	3	1	1.4	05/26/10	05/28/10 04:42	1014	
1,2-Dichlorobenzene	ND	ug/L	7	1	3.6	05/26/10	05/28/10 04:42	1014	
1,3-Dichlorobenzene	ND	ug/L	1	1	0.7	05/26/10	05/28/10 04:42	1014	
1,4-Dichlorobenzene	ND	ug/L	0.7	1	0.7	05/26/10	05/28/10 04:42	1014	
3,3-Dichlorobenzidine	ND	ug/L	0.7	1	0.7	05/26/10	05/28/10 04:42	1014	
2,4-Dichlorophenol	ND	ug/L	7	1	3.6	05/26/10	05/28/10 04:42	1014	
Diethyl phthalate	ND	ug/L	7	1	3.6	05/26/10	05/28/10 04:42	1014	
2,4-Dimethylphenol	ND	ug/L	7	1	3.6	05/26/10	05/28/10 04:42	1014	
2,4-Dinitrophenol	ND	ug/L	7	1	3.6	05/26/10	05/28/10 04:42	1014	
2,4-Dinitrotoluene	ND	ug/L	7	1	3.6	05/26/10	05/28/10 04:42	1014	
2,6-Dinitrotoluene	ND	ug/L	3	1	1.4	05/26/10	05/28/10 04:42	1014	
Fluoranthene	ND	ug/L	7	1	3.6	05/26/10	05/28/10 04:42	1014	

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-SW-SE	Date/Time Sampled: 05/20/2010 14:50	PSS Sample ID: 10052118-003
Matrix: SURFACE WATER	Date/Time Received: 05/21/2010 15:40	

VCP Semivolatile Organic Compounds	Analytical Method: SW846 8270C	Preparation Method: SW846 3510C
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	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Fluorene	ND	ug/L	7	1	3.6	05/26/10	05/28/10 04:42	1014	
Hexachlorobenzene	ND	ug/L	1	1	0.7	05/26/10	05/28/10 04:42	1014	
Hexachlorobutadiene	ND	ug/L	7	1	3.6	05/26/10	05/28/10 04:42	1014	
Hexachlorocyclopentadiene	ND	ug/L	7	1	3.6	05/26/10	05/28/10 04:42	1014	
Hexachloroethane	ND	ug/L	3	1	1.4	05/26/10	05/28/10 04:42	1014	
Indeno(1,2,3-c,d)Pyrene	ND	ug/L	0.7	1	0.7	05/26/10	05/28/10 04:42	1014	
Isophorone	ND	ug/L	7	1	3.6	05/26/10	05/28/10 04:42	1014	
2-Methylnaphthalene	ND	ug/L	3	1	1.4	05/26/10	05/28/10 04:42	1014	
2-Methyl phenol	ND	ug/L	7	1	3.6	05/26/10	05/28/10 04:42	1014	
3&4-Methylphenol	ND	ug/L	7	1	3.6	05/26/10	05/28/10 04:42	1014	
Naphthalene	ND	ug/L	0.7	1	0.7	05/26/10	05/28/10 04:42	1014	
Nitrobenzene	ND	ug/L	3	1	1.4	05/26/10	05/28/10 04:42	1014	
N-Nitrosodi-n-propyl amine	ND	ug/L	0.7	1	0.7	05/26/10	05/28/10 04:42	1014	
N-Nitrosodiphenylamine	ND	ug/L	7	1	3.6	05/26/10	05/28/10 04:42	1014	
Pentachlorophenol	ND	ug/L	3	1	2.9	05/26/10	05/28/10 04:42	1014	
Phenanthrene	ND	ug/L	7	1	3.6	05/26/10	05/28/10 04:42	1014	
Phenol	ND	ug/L	7	1	3.6	05/26/10	05/28/10 04:42	1014	
Pyrene	ND	ug/L	7	1	3.6	05/26/10	05/28/10 04:42	1014	
1,2,4-Trichlorobenzene	ND	ug/L	7	1	3.6	05/26/10	05/28/10 04:42	1014	
2,4,6-Trichlorophenol	ND	ug/L	7	1	3.6	05/26/10	05/28/10 04:42	1014	
2,4,5-Trichlorophenol	ND	ug/L	7	1	3.6	05/26/10	05/28/10 04:42	1014	
Bis(2-ethylhexyl)adipate	ND	ug/L	7	1	3.6	05/26/10	05/28/10 04:42	1014	

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CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: DUP-AOC-28-SW-01	Date/Time Sampled: 05/20/2010 00:00	PSS Sample ID: 10052118-004
Matrix: SURFACE WATER	Date/Time Received: 05/21/2010 15:40	

PP MDE Metals	Analytical Method: SW846 6020A					Preparation Method: SW846 3010A			
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	05/25/10	05/25/10 17:48	1033
Arsenic	0.7	ug/L	1.0	J	1	0.5	05/25/10	05/28/10 11:17	1033
Beryllium	ND	ug/L	0.5		1	0.5	05/25/10	05/25/10 17:48	1033
Cadmium	ND	ug/L	1.0		1	0.5	05/25/10	05/25/10 17:48	1033
Chromium	0.5	ug/L	1.0	J	1	0.5	05/25/10	05/25/10 17:48	1033
Copper	1.2	ug/L	1.0		1	0.5	05/25/10	05/28/10 11:17	1033
Lead	ND	ug/L	1.0		1	0.5	05/25/10	05/25/10 17:48	1033
Mercury	ND	ug/L	0.20		1	0.1	05/25/10	05/25/10 17:48	1033
Nickel	3.9	ug/L	1.0		1	0.5	05/25/10	05/25/10 17:48	1033
Selenium	ND	ug/L	1.0		1	0.5	05/25/10	05/25/10 17:48	1033
Silver	ND	ug/L	1.0		1	0.5	05/25/10	05/25/10 17:48	1033
Thallium	ND	ug/L	1.0		1	0.5	05/25/10	05/25/10 17:48	1033
Zinc	ND	ug/L	20		1	10	05/25/10	05/25/10 17:48	1033
Total Petroleum Hydrocarbons - DRO	Analytical Method: SW846 8015C					Preparation Method: SW846 3510C			
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	ND	mg/L	0.047		1	0.047	05/24/10	05/24/10 14:01	1040
Total Petroleum Hydrocarbons-GRO	Analytical Method: SW846 8015C					Preparation Method: SW846 5030B			
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	40		1	40	05/24/10	05/24/10 13:40	1035

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: DUP-AOC-28-SW-01	Date/Time Sampled: 05/20/2010 00:00		PSS Sample ID: 10052118-004						
Matrix: SURFACE WATER	Date/Time Received: 05/21/2010 15:40								
VCP Organochlorine Pesticides	Analytical Method: SW846 8081B				Preparation Method: SW846 3510C				
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Aldrin	ND	ug/L	0.04	1	0.04	05/24/10	05/25/10 15:19	1029	
alpha-BHC	ND	ug/L	0.04	1	0.04	05/24/10	05/25/10 15:19	1029	
beta-BHC	ND	ug/L	0.04	1	0.04	05/24/10	05/25/10 15:19	1029	
delta-BHC	ND	ug/L	0.08	1	0.04	05/24/10	05/25/10 15:19	1029	
alpha-Chlordane	ND	ug/L	0.08	1	0.04	05/24/10	05/25/10 15:19	1029	
gamma-Chlordane	ND	ug/L	0.08	1	0.04	05/24/10	05/25/10 15:19	1029	
4,4-DDD	ND	ug/L	0.08	1	0.04	05/24/10	05/25/10 15:19	1029	
4,4-DDE	ND	ug/L	0.08	1	0.04	05/24/10	05/25/10 15:19	1029	
4,4-DDT	ND	ug/L	0.08	1	0.04	05/24/10	05/25/10 15:19	1029	
Dieldrin	ND	ug/L	0.04	1	0.04	05/24/10	05/25/10 15:19	1029	
Endosulfan I	ND	ug/L	0.08	1	0.04	05/24/10	05/25/10 15:19	1029	
Endosulfan II	ND	ug/L	0.08	1	0.04	05/24/10	05/25/10 15:19	1029	
Endosulfan sulfate	ND	ug/L	0.08	1	0.04	05/24/10	05/25/10 15:19	1029	
Endrin	ND	ug/L	0.08	1	0.04	05/24/10	05/25/10 15:19	1029	
Endrin aldehyde	ND	ug/L	0.08	1	0.04	05/24/10	05/25/10 15:19	1029	
Endrin ketone	ND	ug/L	0.08	1	0.04	05/24/10	05/25/10 15:19	1029	
gamma-BHC (Lindane)	ND	ug/L	0.08	1	0.04	05/24/10	05/25/10 15:19	1029	
Heptachlor	ND	ug/L	0.08	1	0.04	05/24/10	05/25/10 15:19	1029	
Heptachlor epoxide	ND	ug/L	0.08	1	0.04	05/24/10	05/25/10 15:19	1029	
Methoxychlor	ND	ug/L	0.08	1	0.04	05/24/10	05/25/10 15:19	1029	
Toxaphene	ND	ug/L	2	1	1	05/24/10	05/25/10 15:19	1029	

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CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: DUP-AOC-28-SW-01	Date/Time Sampled: 05/20/2010 00:00	PSS Sample ID: 10052118-004
Matrix: SURFACE WATER	Date/Time Received: 05/21/2010 15:40	

VCP Polychlorinated Biphenyls Analytical Method: SW846 8082A Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	ug/L	0.5		1	0.5	05/24/10	05/25/10 13:08	1029
PCB-1221	ND	ug/L	0.5		1	0.5	05/24/10	05/25/10 13:08	1029
PCB-1232	ND	ug/L	0.5		1	0.5	05/24/10	05/25/10 13:08	1029
PCB-1242	ND	ug/L	0.5		1	0.5	05/24/10	05/25/10 13:08	1029
PCB-1248	ND	ug/L	0.5		1	0.5	05/24/10	05/25/10 13:08	1029
PCB-1254	ND	ug/L	0.5		1	0.5	05/24/10	05/25/10 13:08	1029
PCB-1260	ND	ug/L	0.5		1	0.5	05/24/10	05/25/10 13:08	1029

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: DUP-AOC-28-SW-01	Date/Time Sampled: 05/20/2010 00:00			PSS Sample ID: 10052118-004					
Matrix: SURFACE WATER	Date/Time Received: 05/21/2010 15:40								
VCP Volatile Organic Compounds	Analytical Method: SW846 8260B					Preparation Method: SW846 5030B			
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Chloromethane	ND	ug/L	1	1	1	0.5	05/24/10	05/24/10 17:58	1011
Vinyl Chloride	ND	ug/L	1	1	1	0.5	05/24/10	05/24/10 17:58	1011
Bromomethane	ND	ug/L	1	1	1	0.5	05/24/10	05/24/10 17:58	1011
Chloroethane	ND	ug/L	1	1	1	0.5	05/24/10	05/24/10 17:58	1011
Acetone	ND	ug/L	10	1	1	5	05/24/10	05/24/10 17:58	1011
1,1-Dichloroethene	ND	ug/L	1	1	1	0.5	05/24/10	05/24/10 17:58	1011
Methylene Chloride	ND	ug/L	1	1	1	0.5	05/24/10	05/24/10 17:58	1011
trans-1,2-Dichloroethene	ND	ug/L	1	1	1	0.5	05/24/10	05/24/10 17:58	1011
Methyl-t-butyl ether	ND	ug/L	1	1	1	0.5	05/24/10	05/24/10 17:58	1011
1,1-Dichloroethane	ND	ug/L	1	1	1	0.5	05/24/10	05/24/10 17:58	1011
2-Butanone	ND	ug/L	10	1	1	5	05/24/10	05/24/10 17:58	1011
cis-1,2-Dichloroethene	ND	ug/L	1	1	1	0.5	05/24/10	05/24/10 17:58	1011
Chloroform	ND	ug/L	1	1	1	0.5	05/24/10	05/24/10 17:58	1011
1,1,1-Trichloroethane	ND	ug/L	1	1	1	0.5	05/24/10	05/24/10 17:58	1011
1,2-Dichloroethane	ND	ug/L	1	1	1	0.5	05/24/10	05/24/10 17:58	1011
Carbon Tetrachloride	ND	ug/L	1	1	1	0.5	05/24/10	05/24/10 17:58	1011
Benzene	ND	ug/L	1	1	1	0.5	05/24/10	05/24/10 17:58	1011
1,2-Dichloropropane	ND	ug/L	1	1	1	0.5	05/24/10	05/24/10 17:58	1011
Trichloroethene	ND	ug/L	1	1	1	0.5	05/24/10	05/24/10 17:58	1011
Carbon Disulfide	ND	ug/L	10	1	1	5	05/24/10	05/24/10 17:58	1011
Bromodichloromethane	ND	ug/L	1	1	1	0.5	05/24/10	05/24/10 17:58	1011
cis-1,3-Dichloropropene	ND	ug/L	1	1	1	0.5	05/24/10	05/24/10 17:58	1011
4-Methyl-2-Pentanone	ND	ug/L	5	1	2.5	05/24/10	05/24/10 17:58	1011	
trans-1,3-Dichloropropene	ND	ug/L	1	1	1	0.5	05/24/10	05/24/10 17:58	1011
1,1,2-Trichloroethane	ND	ug/L	1	1	1	0.5	05/24/10	05/24/10 17:58	1011
Toluene	ND	ug/L	1	1	1	0.5	05/24/10	05/24/10 17:58	1011
1,2-Dibromoethane	ND	ug/L	1	1	1	0.5	05/24/10	05/24/10 17:58	1011
Dibromochloromethane	ND	ug/L	1	1	1	0.5	05/24/10	05/24/10 17:58	1011
Bromoform	ND	ug/L	5	1	2.5	05/24/10	05/24/10 17:58	1011	
Tetrachloroethene	ND	ug/L	1	1	1	0.5	05/24/10	05/24/10 17:58	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: DUP-AOC-28-SW-01	Date/Time Sampled: 05/20/2010 00:00	PSS Sample ID: 10052118-004
Matrix: SURFACE WATER	Date/Time Received: 05/21/2010 15:40	

VCP Volatile Organic Compounds	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Chlorobenzene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 17:58	1011	
Ethylbenzene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 17:58	1011	
m,p-Xylenes	ND	ug/L	2	1	1	05/24/10	05/24/10 17:58	1011	
Styrene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 17:58	1011	
1,1,2,2-Tetrachloroethane	ND	ug/L	1	1	0.5	05/24/10	05/24/10 17:58	1011	
o-Xylene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 17:58	1011	
Isopropylbenzene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 17:58	1011	
n-Propylbenzene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 17:58	1011	
1,3,5-Trimethylbenzene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 17:58	1011	
1,2,4-Trimethylbenzene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 17:58	1011	
n-Butylbenzene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 17:58	1011	
1,2-Dibromo-3-Chloropropane	ND	ug/L	10	1	5	05/24/10	05/24/10 17:58	1011	

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No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: DUP-AOC-28-SW-01	Date/Time Sampled: 05/20/2010 00:00		PSS Sample ID: 10052118-004						
Matrix: SURFACE WATER	Date/Time Received: 05/21/2010 15:40								
VCP Semivolatile Organic Compounds	Analytical Method: SW846 8270C				Preparation Method: SW846 3510C				
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5	1	2.5	05/26/10	05/28/10 05:12	1014	
Acenaphthylene	ND	ug/L	5	1	2.5	05/26/10	05/28/10 05:12	1014	
Anthracene	ND	ug/L	5	1	2.5	05/26/10	05/28/10 05:12	1014	
Benzo(a)anthracene	ND	ug/L	0.5	1	0.5	05/26/10	05/28/10 05:12	1014	
Benzo(a)pyrene	ND	ug/L	0.5	1	0.5	05/26/10	05/28/10 05:12	1014	
Benzo(b)fluoranthene	ND	ug/L	0.5	1	0.5	05/26/10	05/28/10 05:12	1014	
Benzo(g,h,i)perylene	ND	ug/L	5	1	2.5	05/26/10	05/28/10 05:12	1014	
Benzo(k)fluoranthene	ND	ug/L	0.5	1	0.5	05/26/10	05/28/10 05:12	1014	
bis(2-chloroethyl) ether	ND	ug/L	0.5	1	0.5	05/26/10	05/28/10 05:12	1014	
bis(2-chloroisopropyl) ether	ND	ug/L	0.5	1	0.5	05/26/10	05/28/10 05:12	1014	
bis(2-ethylhexyl) phthalate	ND	ug/L	5	1	2.5	05/26/10	05/28/10 05:12	1014	
Di-n-butyl phthalate	ND	ug/L	5	1	2.5	05/26/10	05/28/10 05:12	1014	
Carbazole	ND	ug/L	5	1	2.5	05/26/10	05/28/10 05:12	1014	
4-Chloroaniline	ND	ug/L	10	1	5	05/26/10	05/28/10 05:12	1014	
2-Chloronaphthalene	ND	ug/L	5	1	2.5	05/26/10	05/28/10 05:12	1014	
2-Chlorophenol	ND	ug/L	2	1	2	05/26/10	05/28/10 05:12	1014	
Chrysene	ND	ug/L	2	1	1	05/26/10	05/28/10 05:12	1014	
Dibenz(a,h)Anthracene	ND	ug/L	0.5	1	0.5	05/26/10	05/28/10 05:12	1014	
Dibenzofuran	ND	ug/L	2	1	1	05/26/10	05/28/10 05:12	1014	
1,2-Dichlorobenzene	ND	ug/L	5	1	2.5	05/26/10	05/28/10 05:12	1014	
1,3-Dichlorobenzene	ND	ug/L	1	1	0.5	05/26/10	05/28/10 05:12	1014	
1,4-Dichlorobenzene	ND	ug/L	0.5	1	0.5	05/26/10	05/28/10 05:12	1014	
3,3-Dichlorobenzidine	ND	ug/L	0.5	1	0.5	05/26/10	05/28/10 05:12	1014	
2,4-Dichlorophenol	ND	ug/L	5	1	2.5	05/26/10	05/28/10 05:12	1014	
Diethyl phthalate	ND	ug/L	5	1	2.5	05/26/10	05/28/10 05:12	1014	
2,4-Dimethylphenol	ND	ug/L	5	1	2.5	05/26/10	05/28/10 05:12	1014	
2,4-Dinitrophenol	ND	ug/L	5	1	2.5	05/26/10	05/28/10 05:12	1014	
2,4-Dinitrotoluene	ND	ug/L	5	1	2.5	05/26/10	05/28/10 05:12	1014	
2,6-Dinitrotoluene	ND	ug/L	2	1	1	05/26/10	05/28/10 05:12	1014	
Fluoranthene	ND	ug/L	5	1	2.5	05/26/10	05/28/10 05:12	1014	

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: DUP-AOC-28-SW-01	Date/Time Sampled: 05/20/2010 00:00	PSS Sample ID: 10052118-004
Matrix: SURFACE WATER	Date/Time Received: 05/21/2010 15:40	

VCP Semivolatile Organic Compounds	Analytical Method: SW846 8270C	Preparation Method: SW846 3510C
------------------------------------	--------------------------------	---------------------------------

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Fluorene	ND	ug/L	5	1	2.5	05/26/10	05/28/10 05:12	1014	
Hexachlorobenzene	ND	ug/L	1	1	0.5	05/26/10	05/28/10 05:12	1014	
Hexachlorobutadiene	ND	ug/L	5	1	2.5	05/26/10	05/28/10 05:12	1014	
Hexachlorocyclopentadiene	ND	ug/L	5	1	2.5	05/26/10	05/28/10 05:12	1014	
Hexachloroethane	ND	ug/L	2	1	1	05/26/10	05/28/10 05:12	1014	
Indeno(1,2,3-c,d)Pyrene	ND	ug/L	0.5	1	0.5	05/26/10	05/28/10 05:12	1014	
Isophorone	ND	ug/L	5	1	2.5	05/26/10	05/28/10 05:12	1014	
2-Methylnaphthalene	ND	ug/L	2	1	1	05/26/10	05/28/10 05:12	1014	
2-Methyl phenol	ND	ug/L	5	1	2.5	05/26/10	05/28/10 05:12	1014	
3&4-Methylphenol	ND	ug/L	5	1	2.5	05/26/10	05/28/10 05:12	1014	
Naphthalene	ND	ug/L	0.5	1	0.5	05/26/10	05/28/10 05:12	1014	
Nitrobenzene	ND	ug/L	2	1	1	05/26/10	05/28/10 05:12	1014	
N-Nitrosodi-n-propyl amine	ND	ug/L	0.5	1	0.5	05/26/10	05/28/10 05:12	1014	
N-Nitrosodiphenylamine	ND	ug/L	5	1	2.5	05/26/10	05/28/10 05:12	1014	
Pentachlorophenol	ND	ug/L	2	1	2	05/26/10	05/28/10 05:12	1014	
Phenanthrene	ND	ug/L	5	1	2.5	05/26/10	05/28/10 05:12	1014	
Phenol	ND	ug/L	5	1	2.5	05/26/10	05/28/10 05:12	1014	
Pyrene	ND	ug/L	5	1	2.5	05/26/10	05/28/10 05:12	1014	
1,2,4-Trichlorobenzene	ND	ug/L	5	1	2.5	05/26/10	05/28/10 05:12	1014	
2,4,6-Trichlorophenol	ND	ug/L	5	1	2.5	05/26/10	05/28/10 05:12	1014	
2,4,5-Trichlorophenol	ND	ug/L	5	1	2.5	05/26/10	05/28/10 05:12	1014	
Bis(2-ethylhexyl)adipate	ND	ug/L	5	1	2.5	05/26/10	05/28/10 05:12	1014	

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CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: DUP-SED-01	Date/Time Sampled: 05/20/2010 00:00		PSS Sample ID: 10052118-005						
Matrix: SOIL	Date/Time Received: 05/21/2010 15:40		% Solids: 62						
PP MDE Metals	Analytical Method: SW846 6020A				Preparation Method: SW846 3050B				
Result Units RL Flag Dil LOD Prepared Analyzed Analyst									
Antimony	ND	mg/kg	3.8	1	1.9	05/24/10	05/26/10 10:06	1033	
Arsenic	3.6	mg/kg	0.4	1	0.4	05/24/10	05/26/10 10:06	1033	
Beryllium	ND	mg/kg	3.8	1	1.9	05/24/10	05/26/10 10:06	1033	
Cadmium	ND	mg/kg	3.8	1	1.9	05/24/10	05/26/10 10:06	1033	
Chromium	21	mg/kg	3.8	1	1.9	05/24/10	05/26/10 10:06	1033	
Copper	18	mg/kg	3.8	1	1.9	05/24/10	05/26/10 10:06	1033	
Lead	9.5	mg/kg	3.8	1	1.9	05/24/10	05/26/10 10:06	1033	
Mercury	ND	mg/kg	0.15	1	0.08	05/24/10	05/26/10 10:06	1033	
Nickel	12	mg/kg	3.8	1	1.9	05/24/10	05/26/10 10:06	1033	
Selenium	ND	mg/kg	3.8	1	1.9	05/24/10	05/26/10 10:06	1033	
Silver	ND	mg/kg	3.8	1	1.9	05/24/10	05/26/10 10:06	1033	
Thallium	ND	mg/kg	0.8	1	0.4	05/24/10	05/26/10 10:06	1033	
Zinc	34	mg/kg	15	1	7.6	05/24/10	05/26/10 10:06	1033	
Total Petroleum Hydrocarbons - DRO	Analytical Method: SW846 8015C				Preparation Method: SW846 3550				
TPH-DRO (Diesel Range Organics)	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	ND	mg/kg	16	1	7.9	05/27/10	05/27/10 15:38	1040	
Total Petroleum Hydrocarbons-GRO	Analytical Method: SW846 8015C				Preparation Method: SW846 5030				
TPH-GRO (Gasoline Range Organics)	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/kg	160	1	79	05/24/10	05/24/10 23:48	1035	

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CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: DUP-SED-01	Date/Time Sampled: 05/20/2010 00:00			PSS Sample ID: 10052118-005				
Matrix: SOIL	Date/Time Received: 05/21/2010 15:40			% Solids: 62				
VCP Organochlorine Pesticides	Analytical Method: SW846 8081B				Preparation Method: SW846 3550			
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed
4,4-DDD	ND	ug/kg	31	1	16	05/24/10	05/25/10 16:15	1029
4,4-DDE	ND	ug/kg	31	1	16	05/24/10	05/25/10 16:15	1029
4,4-DDT	ND	ug/kg	31	1	16	05/24/10	05/25/10 16:15	1029
Aldrin	ND	ug/kg	31	1	16	05/24/10	05/25/10 16:15	1029
alpha-BHC	ND	ug/kg	31	1	16	05/24/10	05/25/10 16:15	1029
alpha-Chlordane	ND	ug/kg	31	1	16	05/24/10	05/25/10 16:15	1029
beta-BHC	ND	ug/kg	31	1	16	05/24/10	05/25/10 16:15	1029
delta-BHC	ND	ug/kg	31	1	16	05/24/10	05/25/10 16:15	1029
Dieldrin	ND	ug/kg	31	1	16	05/24/10	05/25/10 16:15	1029
Endosulfan I	ND	ug/kg	31	1	16	05/24/10	05/25/10 16:15	1029
Endosulfan II	ND	ug/kg	31	1	16	05/24/10	05/25/10 16:15	1029
Endosulfan sulfate	ND	ug/kg	31	1	16	05/24/10	05/25/10 16:15	1029
Endrin	ND	ug/kg	31	1	16	05/24/10	05/25/10 16:15	1029
Endrin aldehyde	ND	ug/kg	31	1	16	05/24/10	05/25/10 16:15	1029
Endrin ketone	ND	ug/kg	31	1	16	05/24/10	05/25/10 16:15	1029
gamma-BHC (Lindane)	ND	ug/kg	31	1	16	05/24/10	05/25/10 16:15	1029
gamma-Chlordane	ND	ug/kg	31	1	16	05/24/10	05/25/10 16:15	1029
Heptachlor	ND	ug/kg	31	1	16	05/24/10	05/25/10 16:15	1029
Heptachlor epoxide	ND	ug/kg	31	1	16	05/24/10	05/25/10 16:15	1029
Methoxychlor	ND	ug/kg	31	1	16	05/24/10	05/25/10 16:15	1029
Toxaphene	ND	ug/kg	310	1	160	05/24/10	05/25/10 16:15	1029

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CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: DUP-SED-01	Date/Time Sampled: 05/20/2010 00:00			PSS Sample ID: 10052118-005				
Matrix: SOIL	Date/Time Received: 05/21/2010 15:40			% Solids: 62				
Polychlorinated Biphenyls	Analytical Method: SW846 8082A					Preparation Method: SW846 3550		
Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND mg/kg	0.2		1	0.1	05/25/10	05/26/10 12:22	1029
PCB-1221	ND mg/kg	0.2		1	0.1	05/25/10	05/26/10 12:22	1029
PCB-1232	ND mg/kg	0.2		1	0.1	05/25/10	05/26/10 12:22	1029
PCB-1242	ND mg/kg	0.2		1	0.1	05/25/10	05/26/10 12:22	1029
PCB-1248	ND mg/kg	0.2		1	0.1	05/25/10	05/26/10 12:22	1029
PCB-1254	ND mg/kg	0.2		1	0.1	05/25/10	05/26/10 12:22	1029
PCB-1260	ND mg/kg	0.2		1	0.1	05/25/10	05/26/10 12:22	1029

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July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: DUP-SED-01		Date/Time Sampled: 05/20/2010 00:00			PSS Sample ID: 10052118-005					
Matrix: SOIL		Date/Time Received: 05/21/2010 15:40			% Solids: 62					
VCP Volatile Organic Compounds		Analytical Method: SW846 8260B					Preparation Method: SW846 5035A			
<i>Sample Preparation Method was SW5030.</i>										
		Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Chloromethane		ND	ug/kg	8		1	3.9	05/28/10	05/28/10 10:56	1011
Vinyl Chloride		ND	ug/kg	8		1	3.9	05/28/10	05/28/10 10:56	1011
Bromomethane		ND	ug/kg	8		1	3.9	05/28/10	05/28/10 10:56	1011
Chloroethane		ND	ug/kg	8		1	3.9	05/28/10	05/28/10 10:56	1011
Acetone		ND	ug/kg	31		1	16	05/28/10	05/28/10 10:56	1011
1,1-Dichloroethene		ND	ug/kg	8		1	3.9	05/28/10	05/28/10 10:56	1011
Methylene Chloride		ND	ug/kg	8		1	3.9	05/28/10	05/28/10 10:56	1011
trans-1,2-Dichloroethene		ND	ug/kg	8		1	3.9	05/28/10	05/28/10 10:56	1011
Methyl-t-butyl ether		ND	ug/kg	8		1	3.9	05/28/10	05/28/10 10:56	1011
1,1-Dichloroethane		ND	ug/kg	8		1	3.9	05/28/10	05/28/10 10:56	1011
2-Butanone		ND	ug/kg	31		1	16	05/28/10	05/28/10 10:56	1011
cis-1,2-Dichloroethene		ND	ug/kg	8		1	3.9	05/28/10	05/28/10 10:56	1011
Chloroform		ND	ug/kg	8		1	3.9	05/28/10	05/28/10 10:56	1011
1,1,1-Trichloroethane		ND	ug/kg	8		1	3.9	05/28/10	05/28/10 10:56	1011
1,2-Dichloroethane		ND	ug/kg	8		1	3.9	05/28/10	05/28/10 10:56	1011
Carbon Tetrachloride		ND	ug/kg	8		1	3.9	05/28/10	05/28/10 10:56	1011
Benzene		ND	ug/kg	8		1	3.9	05/28/10	05/28/10 10:56	1011
1,2-Dichloropropane		ND	ug/kg	8		1	3.9	05/28/10	05/28/10 10:56	1011
Carbon Disulfide		ND	ug/kg	16		1	7.9	05/28/10	05/28/10 10:56	1011
Trichloroethene		ND	ug/kg	8		1	3.9	05/28/10	05/28/10 10:56	1011
Bromodichloromethane		ND	ug/kg	8		1	3.9	05/28/10	05/28/10 10:56	1011
cis-1,3-Dichloropropene		ND	ug/kg	8		1	3.9	05/28/10	05/28/10 10:56	1011
4-Methyl-2-Pentanone		ND	ug/kg	31		1	16	05/28/10	05/28/10 10:56	1011
trans-1,3-Dichloropropene		ND	ug/kg	8		1	3.9	05/28/10	05/28/10 10:56	1011
1,1,2-Trichloroethane		ND	ug/kg	8		1	3.9	05/28/10	05/28/10 10:56	1011
Toluene		ND	ug/kg	8		1	3.9	05/28/10	05/28/10 10:56	1011
1,2-Dibromoethane		ND	ug/kg	8		1	3.9	05/28/10	05/28/10 10:56	1011
Dibromochloromethane		ND	ug/kg	8		1	3.9	05/28/10	05/28/10 10:56	1011
Bromoform		ND	ug/kg	8		1	3.9	05/28/10	05/28/10 10:56	1011
Tetrachloroethene		ND	ug/kg	8		1	3.9	05/28/10	05/28/10 10:56	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: DUP-SED-01	Date/Time Sampled: 05/20/2010 00:00				PSS Sample ID: 10052118-005			
Matrix: SOIL	Date/Time Received: 05/21/2010 15:40				% Solids: 62			
VCP Volatile Organic Compounds	Analytical Method: SW846 8260B				Preparation Method: SW846 5035A			
<i>Sample Preparation Method was SW5030.</i>								
Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Chlorobenzene	ug/kg	8		1	3.9	05/28/10	05/28/10 10:56	1011
Ethylbenzene	ug/kg	8		1	3.9	05/28/10	05/28/10 10:56	1011
m,p-Xylenes	ug/kg	16		1	7.9	05/28/10	05/28/10 10:56	1011
Styrene	ug/kg	8		1	3.9	05/28/10	05/28/10 10:56	1011
1,1,2,2-Tetrachloroethane	ug/kg	8		1	3.9	05/28/10	05/28/10 10:56	1011
o-Xylene	ug/kg	8		1	3.9	05/28/10	05/28/10 10:56	1011
Isopropylbenzene	ug/kg	8		1	3.9	05/28/10	05/28/10 10:56	1011
n-Propylbenzene	ug/kg	8		1	3.9	05/28/10	05/28/10 10:56	1011
1,3,5-Trimethylbenzene	ug/kg	8		1	3.9	05/28/10	05/28/10 10:56	1011
1,2,4-Trimethylbenzene	ug/kg	8		1	3.9	05/28/10	05/28/10 10:56	1011
n-Butylbenzene	ug/kg	8		1	3.9	05/28/10	05/28/10 10:56	1011
1,2-Dibromo-3-Chloropropane	ug/kg	63		1	31	05/28/10	05/28/10 10:56	1011

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CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: DUP-SED-01	Date/Time Sampled: 05/20/2010 00:00			PSS Sample ID: 10052118-005					
Matrix: SOIL	Date/Time Received: 05/21/2010 15:40			% Solids: 62					
VCP Semivolatile Organic Compounds	Analytical Method: SW846 8270C			Preparation Method: SW846 3550					
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/kg	270	1	130	05/25/10	05/26/10 00:59	1014	
Acenaphthylene	ND	ug/kg	270	1	130	05/25/10	05/26/10 00:59	1014	
Anthracene	ND	ug/kg	270	1	130	05/25/10	05/26/10 00:59	1014	
Benzo(a)anthracene	ND	ug/kg	270	1	130	05/25/10	05/26/10 00:59	1014	
Benzo(a)pyrene	ND	ug/kg	37	1	37	05/25/10	05/26/10 00:59	1014	
Benzo(b)fluoranthene	ND	ug/kg	270	1	130	05/25/10	05/26/10 00:59	1014	
Benzo(g,h,i)perylene	ND	ug/kg	270	1	130	05/25/10	05/26/10 00:59	1014	
Benzo(k)fluoranthene	ND	ug/kg	270	1	130	05/25/10	05/26/10 00:59	1014	
bis(2-chloroethyl) ether	ND	ug/kg	270	1	130	05/25/10	05/26/10 00:59	1014	
bis(2-chloroisopropyl) ether	ND	ug/kg	270	1	130	05/25/10	05/26/10 00:59	1014	
bis(2-ethylhexyl) phthalate	ND	ug/kg	270	1	130	05/25/10	05/26/10 00:59	1014	
Di-n-butyl phthalate	ND	ug/kg	530	1	270	05/25/10	05/26/10 00:59	1014	
Carbazole	ND	ug/kg	270	1	130	05/25/10	05/26/10 00:59	1014	
4-Chloroaniline	ND	ug/kg	530	1	270	05/25/10	05/26/10 00:59	1014	
2-Chloronaphthalene	ND	ug/kg	270	1	130	05/25/10	05/26/10 00:59	1014	
2-Chlorophenol	ND	ug/kg	270	1	130	05/25/10	05/26/10 00:59	1014	
Chrysene	ND	ug/kg	270	1	130	05/25/10	05/26/10 00:59	1014	
Dibenz(a,h)Anthracene	ND	ug/kg	37	1	37	05/25/10	05/26/10 00:59	1014	
Dibenzofuran	ND	ug/kg	270	1	130	05/25/10	05/26/10 00:59	1014	
1,2-Dichlorobenzene	ND	ug/kg	270	1	130	05/25/10	05/26/10 00:59	1014	
1,3-Dichlorobenzene	ND	ug/kg	270	1	130	05/25/10	05/26/10 00:59	1014	
1,4-Dichlorobenzene	ND	ug/kg	270	1	130	05/25/10	05/26/10 00:59	1014	
3,3-Dichlorobenzidine	ND	ug/kg	270	1	130	05/25/10	05/26/10 00:59	1014	
2,4-Dichlorophenol	ND	ug/kg	270	1	130	05/25/10	05/26/10 00:59	1014	
Diethyl phthalate	ND	ug/kg	270	1	130	05/25/10	05/26/10 00:59	1014	
2,4-Dimethylphenol	ND	ug/kg	270	1	130	05/25/10	05/26/10 00:59	1014	
2,4-Dinitrophenol	ND	ug/kg	530	1	270	05/25/10	05/26/10 00:59	1014	
2,4-Dinitrotoluene	ND	ug/kg	270	1	130	05/25/10	05/26/10 00:59	1014	
2,6-Dinitrotoluene	ND	ug/kg	270	1	130	05/25/10	05/26/10 00:59	1014	
Fluoranthene	ND	ug/kg	270	1	130	05/25/10	05/26/10 00:59	1014	

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: DUP-SED-01	Date/Time Sampled: 05/20/2010 00:00			PSS Sample ID: 10052118-005					
Matrix: SOIL	Date/Time Received: 05/21/2010 15:40			% Solids: 62					
VCP Semivolatile Organic Compounds	Analytical Method: SW846 8270C			Preparation Method: SW846 3550					
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Fluorene	ND	ug/kg	270	1	130	05/25/10	05/26/10 00:59	1014	
Hexachlorobenzene	ND	ug/kg	270	1	130	05/25/10	05/26/10 00:59	1014	
Hexachlorobutadiene	ND	ug/kg	270	1	130	05/25/10	05/26/10 00:59	1014	
Hexachlorocyclopentadiene	ND	ug/kg	270	1	130	05/25/10	05/26/10 00:59	1014	
Hexachloroethane	ND	ug/kg	270	1	130	05/25/10	05/26/10 00:59	1014	
Indeno(1,2,3-c,d)Pyrene	ND	ug/kg	270	1	130	05/25/10	05/26/10 00:59	1014	
Isophorone	ND	ug/kg	270	1	130	05/25/10	05/26/10 00:59	1014	
2-Methylnaphthalene	ND	ug/kg	270	1	130	05/25/10	05/26/10 00:59	1014	
2-Methyl phenol	ND	ug/kg	270	1	130	05/25/10	05/26/10 00:59	1014	
3&4-Methylphenol	ND	ug/kg	270	1	130	05/25/10	05/26/10 00:59	1014	
Naphthalene	ND	ug/kg	270	1	130	05/25/10	05/26/10 00:59	1014	
Nitrobenzene	ND	ug/kg	270	1	130	05/25/10	05/26/10 00:59	1014	
N-Nitrosodi-n-propyl amine	ND	ug/kg	110	1	53	05/25/10	05/26/10 00:59	1014	
N-Nitrosodiphenylamine	ND	ug/kg	270	1	130	05/25/10	05/26/10 00:59	1014	
Pentachlorophenol	ND	ug/kg	530	1	270	05/25/10	05/26/10 00:59	1014	
Phenanthrene	ND	ug/kg	270	1	130	05/25/10	05/26/10 00:59	1014	
Phenol	ND	ug/kg	270	1	130	05/25/10	05/26/10 00:59	1014	
Pyrene	ND	ug/kg	270	1	130	05/25/10	05/26/10 00:59	1014	
Bis(2-ethylhexyl)adipate	ND	ug/kg	270	1	130	05/25/10	05/26/10 00:59	1014	
1,2,4-Trichlorobenzene	ND	ug/kg	270	1	130	05/25/10	05/26/10 00:59	1014	
2,4,6-Trichlorophenol	ND	ug/kg	270	1	130	05/25/10	05/26/10 00:59	1014	
2,4,5-Trichlorophenol	ND	ug/kg	270	1	130	05/25/10	05/26/10 00:59	1014	

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-SED-SW MS/MSD	Date/Time Sampled: 05/20/2010 14:10	PSS Sample ID: 10052118-006
Matrix: SOIL	Date/Time Received: 05/21/2010 15:40	% Solids: 82

PP MDE Metals	Analytical Method: SW846 6020A					Preparation Method: SW846 3050B			
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	mg/kg	3.0		1	1.5	05/24/10	05/26/10 08:41	1033
Arsenic	4.8	mg/kg	0.3		1	0.3	05/24/10	05/26/10 08:41	1033
Beryllium	ND	mg/kg	3.0		1	1.5	05/24/10	05/26/10 08:41	1033
Cadmium	ND	mg/kg	3.0		1	1.5	05/24/10	05/26/10 08:41	1033
Chromium	130	mg/kg	3.0		1	1.5	05/24/10	05/26/10 08:41	1033
Copper	8.3	mg/kg	3.0		1	1.5	05/24/10	05/26/10 08:41	1033
Lead	7.3	mg/kg	3.0		1	1.5	05/24/10	05/26/10 08:41	1033
Mercury	ND	mg/kg	0.12		1	0.06	05/24/10	05/26/10 08:41	1033
Nickel	8.0	mg/kg	3.0		1	1.5	05/24/10	05/26/10 08:41	1033
Selenium	ND	mg/kg	3.0		1	1.5	05/24/10	05/26/10 08:41	1033
Silver	ND	mg/kg	3.0		1	1.5	05/24/10	05/26/10 08:41	1033
Thallium	ND	mg/kg	0.6		1	0.3	05/24/10	05/26/10 08:41	1033
Zinc	17	mg/kg	12		1	5.9	05/24/10	05/26/10 08:41	1033

Total Petroleum Hydrocarbons - DRO	Analytical Method: SW846 8015C					Preparation Method: SW846 3550		
Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)								
ND	mg/kg	12		1	6	05/27/10	05/27/10 15:16	1040
Total Petroleum Hydrocarbons-GRO								
Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)								
ND	ug/kg	120		1	59	05/24/10	05/25/10 00:18	1035

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-SED-SW MS/MSD	Date/Time Sampled: 05/20/2010 14:10		PSS Sample ID: 10052118-006						
Matrix: SOIL	Date/Time Received: 05/21/2010 15:40		% Solids: 82						
VCP Organochlorine Pesticides	Analytical Method: SW846 8081B				Preparation Method: SW846 3550				
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
4,4-DDD	ND	ug/kg	24		1	12	05/24/10	05/25/10 16:43	1029
4,4-DDE	ND	ug/kg	24		1	12	05/24/10	05/25/10 16:43	1029
4,4-DDT	ND	ug/kg	24		1	12	05/24/10	05/25/10 16:43	1029
Aldrin	ND	ug/kg	24		1	12	05/24/10	05/25/10 16:43	1029
alpha-BHC	ND	ug/kg	24		1	12	05/24/10	05/25/10 16:43	1029
alpha-Chlordane	ND	ug/kg	24		1	12	05/24/10	05/25/10 16:43	1029
beta-BHC	ND	ug/kg	24		1	12	05/24/10	05/25/10 16:43	1029
delta-BHC	ND	ug/kg	24		1	12	05/24/10	05/25/10 16:43	1029
Dieldrin	ND	ug/kg	24		1	12	05/24/10	05/25/10 16:43	1029
Endosulfan I	ND	ug/kg	24		1	12	05/24/10	05/25/10 16:43	1029
Endosulfan II	ND	ug/kg	24		1	12	05/24/10	05/25/10 16:43	1029
Endosulfan sulfate	ND	ug/kg	24		1	12	05/24/10	05/25/10 16:43	1029
Endrin	ND	ug/kg	24		1	12	05/24/10	05/25/10 16:43	1029
Endrin aldehyde	ND	ug/kg	24		1	12	05/24/10	05/25/10 16:43	1029
Endrin ketone	ND	ug/kg	24		1	12	05/24/10	05/25/10 16:43	1029
gamma-BHC (Lindane)	ND	ug/kg	24		1	12	05/24/10	05/25/10 16:43	1029
gamma-Chlordane	ND	ug/kg	24		1	12	05/24/10	05/25/10 16:43	1029
Heptachlor	ND	ug/kg	24		1	12	05/24/10	05/25/10 16:43	1029
Heptachlor epoxide	ND	ug/kg	24		1	12	05/24/10	05/25/10 16:43	1029
Methoxychlor	ND	ug/kg	24		1	12	05/24/10	05/25/10 16:43	1029
Toxaphene	ND	ug/kg	240		1	120	05/24/10	05/25/10 16:43	1029

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-SED-SW MS/MSD	Date/Time Sampled: 05/20/2010 14:10	PSS Sample ID: 10052118-006
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Matrix: SOIL	Date/Time Received: 05/21/2010 15:40	% Solids: 82
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Polychlorinated Biphenyls	Analytical Method: SW846 8082A	Preparation Method: SW846 3550
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	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 12:22	1029
PCB-1221	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 12:22	1029
PCB-1232	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 12:22	1029
PCB-1242	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 12:22	1029
PCB-1248	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 12:22	1029
PCB-1254	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 12:22	1029
PCB-1260	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 12:22	1029

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-SED-SW MS/MSD		Date/Time Sampled: 05/20/2010 14:10			PSS Sample ID: 10052118-006					
Matrix: SOIL		Date/Time Received: 05/21/2010 15:40			% Solids: 82					
VCP Volatile Organic Compounds		Analytical Method: SW846 8260B					Preparation Method: SW846 5035A			
<i>Sample Preparation Method was SW5030.</i>										
		Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Chloromethane		ND	ug/kg	6		1	3	05/28/10	05/28/10 11:25	1011
Vinyl Chloride		ND	ug/kg	6		1	3	05/28/10	05/28/10 11:25	1011
Bromomethane		ND	ug/kg	6		1	3	05/28/10	05/28/10 11:25	1011
Chloroethane		ND	ug/kg	6		1	3	05/28/10	05/28/10 11:25	1011
Acetone		ND	ug/kg	24		1	12	05/28/10	05/28/10 11:25	1011
1,1-Dichloroethene		ND	ug/kg	6		1	3	05/28/10	05/28/10 11:25	1011
Methylene Chloride		ND	ug/kg	6		1	3	05/28/10	05/28/10 11:25	1011
trans-1,2-Dichloroethene		ND	ug/kg	6		1	3	05/28/10	05/28/10 11:25	1011
Methyl-t-butyl ether		ND	ug/kg	6		1	3	05/28/10	05/28/10 11:25	1011
1,1-Dichloroethane		ND	ug/kg	6		1	3	05/28/10	05/28/10 11:25	1011
2-Butanone		ND	ug/kg	24		1	12	05/28/10	05/28/10 11:25	1011
cis-1,2-Dichloroethene		ND	ug/kg	6		1	3	05/28/10	05/28/10 11:25	1011
Chloroform		ND	ug/kg	6		1	3	05/28/10	05/28/10 11:25	1011
1,1,1-Trichloroethane		ND	ug/kg	6		1	3	05/28/10	05/28/10 11:25	1011
1,2-Dichloroethane		ND	ug/kg	6		1	3	05/28/10	05/28/10 11:25	1011
Carbon Tetrachloride		ND	ug/kg	6		1	3	05/28/10	05/28/10 11:25	1011
Benzene		ND	ug/kg	6		1	3	05/28/10	05/28/10 11:25	1011
1,2-Dichloropropane		ND	ug/kg	6		1	3	05/28/10	05/28/10 11:25	1011
Carbon Disulfide		ND	ug/kg	12		1	6.1	05/28/10	05/28/10 11:25	1011
Trichloroethene		ND	ug/kg	6		1	3	05/28/10	05/28/10 11:25	1011
Bromodichloromethane		ND	ug/kg	6		1	3	05/28/10	05/28/10 11:25	1011
cis-1,3-Dichloropropene		ND	ug/kg	6		1	3	05/28/10	05/28/10 11:25	1011
4-Methyl-2-Pentanone		ND	ug/kg	24		1	12	05/28/10	05/28/10 11:25	1011
trans-1,3-Dichloropropene		ND	ug/kg	6		1	3	05/28/10	05/28/10 11:25	1011
1,1,2-Trichloroethane		ND	ug/kg	6		1	3	05/28/10	05/28/10 11:25	1011
Toluene		ND	ug/kg	6		1	3	05/28/10	05/28/10 11:25	1011
1,2-Dibromoethane		ND	ug/kg	6		1	3	05/28/10	05/28/10 11:25	1011
Dibromochloromethane		ND	ug/kg	6		1	3	05/28/10	05/28/10 11:25	1011
Bromoform		ND	ug/kg	6		1	3	05/28/10	05/28/10 11:25	1011
Tetrachloroethene		ND	ug/kg	6		1	3	05/28/10	05/28/10 11:25	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-SED-SW MS/MSD	Date/Time Sampled: 05/20/2010 14:10	PSS Sample ID: 10052118-006
Matrix: SOIL	Date/Time Received: 05/21/2010 15:40	% Solids: 82

VCP Volatile Organic Compounds Analytical Method: SW846 8260B Preparation Method: SW846 5035A

Sample Preparation Method was SW5030.

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Chlorobenzene	ND	ug/kg	6		1	3	05/28/10	05/28/10 11:25	1011
Ethylbenzene	ND	ug/kg	6		1	3	05/28/10	05/28/10 11:25	1011
m,p-Xylenes	ND	ug/kg	12		1	6.1	05/28/10	05/28/10 11:25	1011
Styrene	ND	ug/kg	6		1	3	05/28/10	05/28/10 11:25	1011
1,1,2,2-Tetrachloroethane	ND	ug/kg	6		1	3	05/28/10	05/28/10 11:25	1011
o-Xylene	ND	ug/kg	6		1	3	05/28/10	05/28/10 11:25	1011
Isopropylbenzene	ND	ug/kg	6		1	3	05/28/10	05/28/10 11:25	1011
n-Propylbenzene	ND	ug/kg	6		1	3	05/28/10	05/28/10 11:25	1011
1,3,5-Trimethylbenzene	ND	ug/kg	6		1	3	05/28/10	05/28/10 11:25	1011
1,2,4-Trimethylbenzene	ND	ug/kg	6		1	3	05/28/10	05/28/10 11:25	1011
n-Butylbenzene	ND	ug/kg	6		1	3	05/28/10	05/28/10 11:25	1011
1,2-Dibromo-3-Chloropropane	ND	ug/kg	49		1	24	05/28/10	05/28/10 11:25	1011

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CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-SED-SW MS/MSD	Date/Time Sampled: 05/20/2010 14:10		PSS Sample ID: 10052118-006						
Matrix: SOIL	Date/Time Received: 05/21/2010 15:40		% Solids: 82						
VCP Semivolatile Organic Compounds	Analytical Method: SW846 8270C			Preparation Method: SW846 3550					
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/kg	200	1	100	05/25/10	05/26/10 01:28	1014	
Acenaphthylene	ND	ug/kg	200	1	100	05/25/10	05/26/10 01:28	1014	
Anthracene	ND	ug/kg	200	1	100	05/25/10	05/26/10 01:28	1014	
Benzo(a)anthracene	ND	ug/kg	200	1	100	05/25/10	05/26/10 01:28	1014	
Benzo(a)pyrene	ND	ug/kg	28	1	28	05/25/10	05/26/10 01:28	1014	
Benzo(b)fluoranthene	ND	ug/kg	200	1	100	05/25/10	05/26/10 01:28	1014	
Benzo(g,h,i)perylene	ND	ug/kg	200	1	100	05/25/10	05/26/10 01:28	1014	
Benzo(k)fluoranthene	ND	ug/kg	200	1	100	05/25/10	05/26/10 01:28	1014	
bis(2-chloroethyl) ether	ND	ug/kg	200	1	100	05/25/10	05/26/10 01:28	1014	
bis(2-chloroisopropyl) ether	ND	ug/kg	200	1	100	05/25/10	05/26/10 01:28	1014	
bis(2-ethylhexyl) phthalate	ND	ug/kg	200	1	100	05/25/10	05/26/10 01:28	1014	
Di-n-butyl phthalate	ND	ug/kg	410	1	200	05/25/10	05/26/10 01:28	1014	
Carbazole	ND	ug/kg	200	1	100	05/25/10	05/26/10 01:28	1014	
4-Chloroaniline	ND	ug/kg	410	1	200	05/25/10	05/26/10 01:28	1014	
2-Chloronaphthalene	ND	ug/kg	200	1	100	05/25/10	05/26/10 01:28	1014	
2-Chlorophenol	ND	ug/kg	200	1	100	05/25/10	05/26/10 01:28	1014	
Chrysene	ND	ug/kg	200	1	100	05/25/10	05/26/10 01:28	1014	
Dibenz(a,h)Anthracene	ND	ug/kg	28	1	28	05/25/10	05/26/10 01:28	1014	
Dibenzofuran	ND	ug/kg	200	1	100	05/25/10	05/26/10 01:28	1014	
1,2-Dichlorobenzene	ND	ug/kg	200	1	100	05/25/10	05/26/10 01:28	1014	
1,3-Dichlorobenzene	ND	ug/kg	200	1	100	05/25/10	05/26/10 01:28	1014	
1,4-Dichlorobenzene	ND	ug/kg	200	1	100	05/25/10	05/26/10 01:28	1014	
3,3-Dichlorobenzidine	ND	ug/kg	200	1	100	05/25/10	05/26/10 01:28	1014	
2,4-Dichlorophenol	ND	ug/kg	200	1	100	05/25/10	05/26/10 01:28	1014	
Diethyl phthalate	ND	ug/kg	200	1	100	05/25/10	05/26/10 01:28	1014	
2,4-Dimethylphenol	ND	ug/kg	200	1	100	05/25/10	05/26/10 01:28	1014	
2,4-Dinitrophenol	ND	ug/kg	410	1	200	05/25/10	05/26/10 01:28	1014	
2,4-Dinitrotoluene	ND	ug/kg	200	1	100	05/25/10	05/26/10 01:28	1014	
2,6-Dinitrotoluene	ND	ug/kg	200	1	100	05/25/10	05/26/10 01:28	1014	
Fluoranthene	ND	ug/kg	200	1	100	05/25/10	05/26/10 01:28	1014	

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-SED-SW MS/MSD	Date/Time Sampled: 05/20/2010 14:10		PSS Sample ID: 10052118-006						
Matrix: SOIL	Date/Time Received: 05/21/2010 15:40		% Solids: 82						
VCP Semivolatile Organic Compounds	Analytical Method: SW846 8270C			Preparation Method: SW846 3550					
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Fluorene	ND	ug/kg	200	1	100	05/25/10	05/26/10 01:28	1014	
Hexachlorobenzene	ND	ug/kg	200	1	100	05/25/10	05/26/10 01:28	1014	
Hexachlorobutadiene	ND	ug/kg	200	1	100	05/25/10	05/26/10 01:28	1014	
Hexachlorocyclopentadiene	ND	ug/kg	200	1	100	05/25/10	05/26/10 01:28	1014	
Hexachloroethane	ND	ug/kg	200	1	100	05/25/10	05/26/10 01:28	1014	
Indeno(1,2,3-c,d)Pyrene	ND	ug/kg	200	1	100	05/25/10	05/26/10 01:28	1014	
Isophorone	ND	ug/kg	200	1	100	05/25/10	05/26/10 01:28	1014	
2-Methylnaphthalene	ND	ug/kg	200	1	100	05/25/10	05/26/10 01:28	1014	
2-Methyl phenol	ND	ug/kg	200	1	100	05/25/10	05/26/10 01:28	1014	
3&4-Methylphenol	ND	ug/kg	200	1	100	05/25/10	05/26/10 01:28	1014	
Naphthalene	ND	ug/kg	200	1	100	05/25/10	05/26/10 01:28	1014	
Nitrobenzene	ND	ug/kg	200	1	100	05/25/10	05/26/10 01:28	1014	
N-Nitrosodi-n-propyl amine	ND	ug/kg	81	1	41	05/25/10	05/26/10 01:28	1014	
N-Nitrosodiphenylamine	ND	ug/kg	200	1	100	05/25/10	05/26/10 01:28	1014	
Pentachlorophenol	ND	ug/kg	410	1	200	05/25/10	05/26/10 01:28	1014	
Phenanthrene	ND	ug/kg	200	1	100	05/25/10	05/26/10 01:28	1014	
Phenol	ND	ug/kg	200	1	100	05/25/10	05/26/10 01:28	1014	
Pyrene	ND	ug/kg	200	1	100	05/25/10	05/26/10 01:28	1014	
Bis(2-ethylhexyl)adipate	ND	ug/kg	200	1	100	05/25/10	05/26/10 01:28	1014	
1,2,4-Trichlorobenzene	ND	ug/kg	200	1	100	05/25/10	05/26/10 01:28	1014	
2,4,6-Trichlorophenol	ND	ug/kg	200	1	100	05/25/10	05/26/10 01:28	1014	
2,4,5-Trichlorophenol	ND	ug/kg	200	1	100	05/25/10	05/26/10 01:28	1014	

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CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-SED-SE	Date/Time Sampled: 05/20/2010 14:50		PSS Sample ID: 10052118-007						
Matrix: SOIL	Date/Time Received: 05/21/2010 15:40		% Solids: 76						
PP MDE Metals	Analytical Method: SW846 6020A				Preparation Method: SW846 3050B				
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	mg/kg	2.2		1	1.1	05/24/10	05/26/10 10:13	1033
Arsenic	3.7	mg/kg	0.2		1	0.2	05/24/10	05/26/10 10:13	1033
Beryllium	ND	mg/kg	2.2		1	1.1	05/24/10	05/26/10 10:13	1033
Cadmium	ND	mg/kg	2.2		1	1.1	05/24/10	05/26/10 10:13	1033
Chromium	12	mg/kg	2.2		1	1.1	05/24/10	05/26/10 10:13	1033
Copper	11	mg/kg	2.2		1	1.1	05/24/10	05/26/10 10:13	1033
Lead	15	mg/kg	2.2		1	1.1	05/24/10	05/26/10 10:13	1033
Mercury	ND	mg/kg	0.09		1	0.04	05/24/10	05/26/10 10:13	1033
Nickel	17	mg/kg	2.2		1	1.1	05/24/10	05/26/10 10:13	1033
Selenium	ND	mg/kg	2.2		1	1.1	05/24/10	05/26/10 10:13	1033
Silver	ND	mg/kg	2.2		1	1.1	05/24/10	05/26/10 10:13	1033
Thallium	ND	mg/kg	0.4		1	0.2	05/24/10	05/26/10 10:13	1033
Zinc	81	mg/kg	8.8		1	4.4	05/24/10	05/26/10 10:13	1033
Total Petroleum Hydrocarbons - DRO	Analytical Method: SW846 8015C				Preparation Method: SW846 3550				
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	ND	mg/kg	13		1	6.6	05/27/10	05/27/10 15:38	1040
Total Petroleum Hydrocarbons-GRO	Analytical Method: SW846 8015C				Preparation Method: SW846 5030				
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/kg	130		1	65	05/24/10	05/25/10 00:48	1035

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-SED-SE	Date/Time Sampled: 05/20/2010 14:50		PSS Sample ID: 10052118-007						
Matrix: SOIL	Date/Time Received: 05/21/2010 15:40		% Solids: 76						
VCP Organochlorine Pesticides	Analytical Method: SW846 8081B				Preparation Method: SW846 3550				
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
4,4-DDD	ND	ug/kg	26		1	13	05/24/10	05/25/10 16:43	1029
4,4-DDE	ND	ug/kg	26		1	13	05/24/10	05/25/10 16:43	1029
4,4-DDT	ND	ug/kg	26		1	13	05/24/10	05/25/10 16:43	1029
Aldrin	ND	ug/kg	26		1	13	05/24/10	05/25/10 16:43	1029
alpha-BHC	ND	ug/kg	26		1	13	05/24/10	05/25/10 16:43	1029
alpha-Chlordane	ND	ug/kg	26		1	13	05/24/10	05/25/10 16:43	1029
beta-BHC	ND	ug/kg	26		1	13	05/24/10	05/25/10 16:43	1029
delta-BHC	ND	ug/kg	26		1	13	05/24/10	05/25/10 16:43	1029
Dieldrin	ND	ug/kg	26		1	13	05/24/10	05/25/10 16:43	1029
Endosulfan I	ND	ug/kg	26		1	13	05/24/10	05/25/10 16:43	1029
Endosulfan II	ND	ug/kg	26		1	13	05/24/10	05/25/10 16:43	1029
Endosulfan sulfate	ND	ug/kg	26		1	13	05/24/10	05/25/10 16:43	1029
Endrin	ND	ug/kg	26		1	13	05/24/10	05/25/10 16:43	1029
Endrin aldehyde	ND	ug/kg	26		1	13	05/24/10	05/25/10 16:43	1029
Endrin ketone	ND	ug/kg	26		1	13	05/24/10	05/25/10 16:43	1029
gamma-BHC (Lindane)	ND	ug/kg	26		1	13	05/24/10	05/25/10 16:43	1029
gamma-Chlordane	ND	ug/kg	26		1	13	05/24/10	05/25/10 16:43	1029
Heptachlor	ND	ug/kg	26		1	13	05/24/10	05/25/10 16:43	1029
Heptachlor epoxide	ND	ug/kg	26		1	13	05/24/10	05/25/10 16:43	1029
Methoxychlor	ND	ug/kg	26		1	13	05/24/10	05/25/10 16:43	1029
Toxaphene	ND	ug/kg	260		1	130	05/24/10	05/25/10 16:43	1029

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CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-SED-SE	Date/Time Sampled: 05/20/2010 14:50		PSS Sample ID: 10052118-007						
Matrix: SOIL	Date/Time Received: 05/21/2010 15:40		% Solids: 76						
Polychlorinated Biphenyls	Analytical Method: SW846 8082A				Preparation Method: SW846 3550				
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 12:51	1029
PCB-1221	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 12:51	1029
PCB-1232	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 12:51	1029
PCB-1242	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 12:51	1029
PCB-1248	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 12:51	1029
PCB-1254	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 12:51	1029
PCB-1260	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 12:51	1029

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CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-SED-SE		Date/Time Sampled: 05/20/2010 14:50			PSS Sample ID: 10052118-007					
Matrix: SOIL		Date/Time Received: 05/21/2010 15:40			% Solids: 76					
VCP Volatile Organic Compounds		Analytical Method: SW846 8260B					Preparation Method: SW846 5035A			
<i>Sample Preparation Method was SW5030.</i>										
		Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Chloromethane		ND	ug/kg	7	1	1	3.3	05/28/10	05/28/10 11:53	1011
Vinyl Chloride		ND	ug/kg	7	1	1	3.3	05/28/10	05/28/10 11:53	1011
Bromomethane		ND	ug/kg	7	1	1	3.3	05/28/10	05/28/10 11:53	1011
Chloroethane		ND	ug/kg	7	1	1	3.3	05/28/10	05/28/10 11:53	1011
Acetone		ND	ug/kg	27	1	1	13	05/28/10	05/28/10 11:53	1011
1,1-Dichloroethene		ND	ug/kg	7	1	1	3.3	05/28/10	05/28/10 11:53	1011
Methylene Chloride		ND	ug/kg	7	1	1	3.3	05/28/10	05/28/10 11:53	1011
trans-1,2-Dichloroethene		ND	ug/kg	7	1	1	3.3	05/28/10	05/28/10 11:53	1011
Methyl-t-butyl ether		ND	ug/kg	7	1	1	3.3	05/28/10	05/28/10 11:53	1011
1,1-Dichloroethane		ND	ug/kg	7	1	1	3.3	05/28/10	05/28/10 11:53	1011
2-Butanone		ND	ug/kg	27	1	1	13	05/28/10	05/28/10 11:53	1011
cis-1,2-Dichloroethene		ND	ug/kg	7	1	1	3.3	05/28/10	05/28/10 11:53	1011
Chloroform		ND	ug/kg	7	1	1	3.3	05/28/10	05/28/10 11:53	1011
1,1,1-Trichloroethane		ND	ug/kg	7	1	1	3.3	05/28/10	05/28/10 11:53	1011
1,2-Dichloroethane		ND	ug/kg	7	1	1	3.3	05/28/10	05/28/10 11:53	1011
Carbon Tetrachloride		ND	ug/kg	7	1	1	3.3	05/28/10	05/28/10 11:53	1011
Benzene		ND	ug/kg	7	1	1	3.3	05/28/10	05/28/10 11:53	1011
1,2-Dichloropropane		ND	ug/kg	7	1	1	3.3	05/28/10	05/28/10 11:53	1011
Carbon Disulfide		ND	ug/kg	13	1	1	6.7	05/28/10	05/28/10 11:53	1011
Trichloroethene		ND	ug/kg	7	1	1	3.3	05/28/10	05/28/10 11:53	1011
Bromodichloromethane		ND	ug/kg	7	1	1	3.3	05/28/10	05/28/10 11:53	1011
cis-1,3-Dichloropropene		ND	ug/kg	7	1	1	3.3	05/28/10	05/28/10 11:53	1011
4-Methyl-2-Pentanone		ND	ug/kg	27	1	1	13	05/28/10	05/28/10 11:53	1011
trans-1,3-Dichloropropene		ND	ug/kg	7	1	1	3.3	05/28/10	05/28/10 11:53	1011
1,1,2-Trichloroethane		ND	ug/kg	7	1	1	3.3	05/28/10	05/28/10 11:53	1011
Toluene		ND	ug/kg	7	1	1	3.3	05/28/10	05/28/10 11:53	1011
1,2-Dibromoethane		ND	ug/kg	7	1	1	3.3	05/28/10	05/28/10 11:53	1011
Dibromochloromethane		ND	ug/kg	7	1	1	3.3	05/28/10	05/28/10 11:53	1011
Bromoform		ND	ug/kg	7	1	1	3.3	05/28/10	05/28/10 11:53	1011
Tetrachloroethene		ND	ug/kg	7	1	1	3.3	05/28/10	05/28/10 11:53	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-SED-SE	Date/Time Sampled: 05/20/2010 14:50			PSS Sample ID: 10052118-007				
Matrix: SOIL	Date/Time Received: 05/21/2010 15:40			% Solids: 76				
VCP Volatile Organic Compounds	Analytical Method: SW846 8260B			Preparation Method: SW846 5035A				
<i>Sample Preparation Method was SW5030.</i>								
Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Chlorobenzene	ug/kg	7		1	3.3	05/28/10	05/28/10 11:53	1011
Ethylbenzene	ug/kg	7		1	3.3	05/28/10	05/28/10 11:53	1011
m,p-Xylenes	ug/kg	13		1	6.7	05/28/10	05/28/10 11:53	1011
Styrene	ug/kg	7		1	3.3	05/28/10	05/28/10 11:53	1011
1,1,2,2-Tetrachloroethane	ug/kg	7		1	3.3	05/28/10	05/28/10 11:53	1011
o-Xylene	ug/kg	7		1	3.3	05/28/10	05/28/10 11:53	1011
Isopropylbenzene	ug/kg	7		1	3.3	05/28/10	05/28/10 11:53	1011
n-Propylbenzene	ug/kg	7		1	3.3	05/28/10	05/28/10 11:53	1011
1,3,5-Trimethylbenzene	ug/kg	7		1	3.3	05/28/10	05/28/10 11:53	1011
1,2,4-Trimethylbenzene	ug/kg	7		1	3.3	05/28/10	05/28/10 11:53	1011
n-Butylbenzene	ug/kg	7		1	3.3	05/28/10	05/28/10 11:53	1011
1,2-Dibromo-3-Chloropropane	ug/kg	53		1	27	05/28/10	05/28/10 11:53	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-SED-SE	Date/Time Sampled: 05/20/2010 14:50		PSS Sample ID: 10052118-007						
Matrix: SOIL	Date/Time Received: 05/21/2010 15:40		% Solids: 76						
VCP Semivolatile Organic Compounds	Analytical Method: SW846 8270C				Preparation Method: SW846 3550				
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/kg	220	1	110	05/25/10	05/26/10 01:57	1014	
Acenaphthylene	ND	ug/kg	220	1	110	05/25/10	05/26/10 01:57	1014	
Anthracene	ND	ug/kg	220	1	110	05/25/10	05/26/10 01:57	1014	
Benzo(a)anthracene	ND	ug/kg	220	1	110	05/25/10	05/26/10 01:57	1014	
Benzo(a)pyrene	ND	ug/kg	31	1	31	05/25/10	05/26/10 01:57	1014	
Benzo(b)fluoranthene	ND	ug/kg	220	1	110	05/25/10	05/26/10 01:57	1014	
Benzo(g,h,i)perylene	ND	ug/kg	220	1	110	05/25/10	05/26/10 01:57	1014	
Benzo(k)fluoranthene	ND	ug/kg	220	1	110	05/25/10	05/26/10 01:57	1014	
bis(2-chloroethyl) ether	ND	ug/kg	220	1	110	05/25/10	05/26/10 01:57	1014	
bis(2-chloroisopropyl) ether	ND	ug/kg	220	1	110	05/25/10	05/26/10 01:57	1014	
bis(2-ethylhexyl) phthalate	ND	ug/kg	220	1	110	05/25/10	05/26/10 01:57	1014	
Di-n-butyl phthalate	ND	ug/kg	440	1	220	05/25/10	05/26/10 01:57	1014	
Carbazole	ND	ug/kg	220	1	110	05/25/10	05/26/10 01:57	1014	
4-Chloroaniline	ND	ug/kg	440	1	220	05/25/10	05/26/10 01:57	1014	
2-Chloronaphthalene	ND	ug/kg	220	1	110	05/25/10	05/26/10 01:57	1014	
2-Chlorophenol	ND	ug/kg	220	1	110	05/25/10	05/26/10 01:57	1014	
Chrysene	ND	ug/kg	220	1	110	05/25/10	05/26/10 01:57	1014	
Dibenz(a,h)Anthracene	ND	ug/kg	31	1	31	05/25/10	05/26/10 01:57	1014	
Dibenzofuran	ND	ug/kg	220	1	110	05/25/10	05/26/10 01:57	1014	
1,2-Dichlorobenzene	ND	ug/kg	220	1	110	05/25/10	05/26/10 01:57	1014	
1,3-Dichlorobenzene	ND	ug/kg	220	1	110	05/25/10	05/26/10 01:57	1014	
1,4-Dichlorobenzene	ND	ug/kg	220	1	110	05/25/10	05/26/10 01:57	1014	
3,3-Dichlorobenzidine	ND	ug/kg	220	1	110	05/25/10	05/26/10 01:57	1014	
2,4-Dichlorophenol	ND	ug/kg	220	1	110	05/25/10	05/26/10 01:57	1014	
Diethyl phthalate	ND	ug/kg	220	1	110	05/25/10	05/26/10 01:57	1014	
2,4-Dimethylphenol	ND	ug/kg	220	1	110	05/25/10	05/26/10 01:57	1014	
2,4-Dinitrophenol	ND	ug/kg	440	1	220	05/25/10	05/26/10 01:57	1014	
2,4-Dinitrotoluene	ND	ug/kg	220	1	110	05/25/10	05/26/10 01:57	1014	
2,6-Dinitrotoluene	ND	ug/kg	220	1	110	05/25/10	05/26/10 01:57	1014	
Fluoranthene	ND	ug/kg	220	1	110	05/25/10	05/26/10 01:57	1014	

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-SED-SE	Date/Time Sampled: 05/20/2010 14:50		PSS Sample ID: 10052118-007						
Matrix: SOIL	Date/Time Received: 05/21/2010 15:40		% Solids: 76						
VCP Semivolatile Organic Compounds	Analytical Method: SW846 8270C				Preparation Method: SW846 3550				
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Fluorene	ND	ug/kg	220	1	110	05/25/10	05/26/10 01:57	1014	
Hexachlorobenzene	ND	ug/kg	220	1	110	05/25/10	05/26/10 01:57	1014	
Hexachlorobutadiene	ND	ug/kg	220	1	110	05/25/10	05/26/10 01:57	1014	
Hexachlorocyclopentadiene	ND	ug/kg	220	1	110	05/25/10	05/26/10 01:57	1014	
Hexachloroethane	ND	ug/kg	220	1	110	05/25/10	05/26/10 01:57	1014	
Indeno(1,2,3-c,d)Pyrene	ND	ug/kg	220	1	110	05/25/10	05/26/10 01:57	1014	
Isophorone	ND	ug/kg	220	1	110	05/25/10	05/26/10 01:57	1014	
2-Methylnaphthalene	ND	ug/kg	220	1	110	05/25/10	05/26/10 01:57	1014	
2-Methyl phenol	ND	ug/kg	220	1	110	05/25/10	05/26/10 01:57	1014	
3&4-Methylphenol	ND	ug/kg	220	1	110	05/25/10	05/26/10 01:57	1014	
Naphthalene	ND	ug/kg	220	1	110	05/25/10	05/26/10 01:57	1014	
Nitrobenzene	ND	ug/kg	220	1	110	05/25/10	05/26/10 01:57	1014	
N-Nitrosodi-n-propyl amine	ND	ug/kg	88	1	44	05/25/10	05/26/10 01:57	1014	
N-Nitrosodiphenylamine	ND	ug/kg	220	1	110	05/25/10	05/26/10 01:57	1014	
Pentachlorophenol	ND	ug/kg	440	1	220	05/25/10	05/26/10 01:57	1014	
Phenanthrene	ND	ug/kg	220	1	110	05/25/10	05/26/10 01:57	1014	
Phenol	ND	ug/kg	220	1	110	05/25/10	05/26/10 01:57	1014	
Pyrene	ND	ug/kg	220	1	110	05/25/10	05/26/10 01:57	1014	
Bis(2-ethylhexyl)adipate	ND	ug/kg	220	1	110	05/25/10	05/26/10 01:57	1014	
1,2,4-Trichlorobenzene	ND	ug/kg	220	1	110	05/25/10	05/26/10 01:57	1014	
2,4,6-Trichlorophenol	ND	ug/kg	220	1	110	05/25/10	05/26/10 01:57	1014	
2,4,5-Trichlorophenol	ND	ug/kg	220	1	110	05/25/10	05/26/10 01:57	1014	

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-SED-NW	Date/Time Sampled: 05/20/2010 13:50		PSS Sample ID: 10052118-008						
Matrix: SOIL	Date/Time Received: 05/21/2010 15:40		% Solids: 69						
PP MDE Metals	Analytical Method: SW846 6020A				Preparation Method: SW846 3050B				
Result Units RL Flag Dil LOD Prepared Analyzed Analyst									
Antimony	ND	mg/kg	3.1	1	1.5	05/24/10	05/26/10 10:19	1033	
Arsenic	3.3	mg/kg	0.3	1	0.3	05/24/10	05/26/10 10:19	1033	
Beryllium	ND	mg/kg	3.1	1	1.5	05/24/10	05/26/10 10:19	1033	
Cadmium	ND	mg/kg	3.1	1	1.5	05/24/10	05/26/10 10:19	1033	
Chromium	21	mg/kg	3.1	1	1.5	05/24/10	05/26/10 10:19	1033	
Copper	24	mg/kg	3.1	1	1.5	05/24/10	05/26/10 10:19	1033	
Lead	9.1	mg/kg	3.1	1	1.5	05/24/10	05/26/10 10:19	1033	
Mercury	ND	mg/kg	0.12	1	0.06	05/24/10	05/26/10 10:19	1033	
Nickel	11	mg/kg	3.1	1	1.5	05/24/10	05/26/10 10:19	1033	
Selenium	ND	mg/kg	3.1	1	1.5	05/24/10	05/26/10 10:19	1033	
Silver	ND	mg/kg	3.1	1	1.5	05/24/10	05/26/10 10:19	1033	
Thallium	ND	mg/kg	0.6	1	0.3	05/24/10	05/26/10 10:19	1033	
Zinc	38	mg/kg	12	1	6.1	05/24/10	05/26/10 10:19	1033	
Total Petroleum Hydrocarbons - DRO	Analytical Method: SW846 8015C				Preparation Method: SW846 3550				
TPH-DRO (Diesel Range Organics)	Result Units RL Flag Dil LOD Prepared Analyzed Analyst								
TPH-DRO (Diesel Range Organics)	ND	mg/kg	14	1	7.2	05/27/10	05/27/10 15:59	1040	
Total Petroleum Hydrocarbons-GRO	Analytical Method: SW846 8015C				Preparation Method: SW846 5030				
TPH-GRO (Gasoline Range Organics)	Result Units RL Flag Dil LOD Prepared Analyzed Analyst								
TPH-GRO (Gasoline Range Organics)	ND	ug/kg	140	1	70	05/24/10	05/25/10 01:18	1035	

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-SED-NW	Date/Time Sampled: 05/20/2010 13:50		PSS Sample ID: 10052118-008						
Matrix: SOIL	Date/Time Received: 05/21/2010 15:40		% Solids: 69						
VCP Organochlorine Pesticides	Analytical Method: SW846 8081B				Preparation Method: SW846 3550				
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
4,4-DDD	ND	ug/kg	28		1	14	05/24/10	05/25/10 17:11	1029
4,4-DDE	ND	ug/kg	28		1	14	05/24/10	05/25/10 17:11	1029
4,4-DDT	ND	ug/kg	28		1	14	05/24/10	05/25/10 17:11	1029
Aldrin	ND	ug/kg	28		1	14	05/24/10	05/25/10 17:11	1029
alpha-BHC	ND	ug/kg	28		1	14	05/24/10	05/25/10 17:11	1029
alpha-Chlordane	ND	ug/kg	28		1	14	05/24/10	05/25/10 17:11	1029
beta-BHC	ND	ug/kg	28		1	14	05/24/10	05/25/10 17:11	1029
delta-BHC	ND	ug/kg	28		1	14	05/24/10	05/25/10 17:11	1029
Dieldrin	ND	ug/kg	28		1	14	05/24/10	05/25/10 17:11	1029
Endosulfan I	ND	ug/kg	28		1	14	05/24/10	05/25/10 17:11	1029
Endosulfan II	ND	ug/kg	28		1	14	05/24/10	05/25/10 17:11	1029
Endosulfan sulfate	ND	ug/kg	28		1	14	05/24/10	05/25/10 17:11	1029
Endrin	ND	ug/kg	28		1	14	05/24/10	05/25/10 17:11	1029
Endrin aldehyde	ND	ug/kg	28		1	14	05/24/10	05/25/10 17:11	1029
Endrin ketone	ND	ug/kg	28		1	14	05/24/10	05/25/10 17:11	1029
gamma-BHC (Lindane)	ND	ug/kg	28		1	14	05/24/10	05/25/10 17:11	1029
gamma-Chlordane	ND	ug/kg	28		1	14	05/24/10	05/25/10 17:11	1029
Heptachlor	ND	ug/kg	28		1	14	05/24/10	05/25/10 17:11	1029
Heptachlor epoxide	ND	ug/kg	28		1	14	05/24/10	05/25/10 17:11	1029
Methoxychlor	ND	ug/kg	28		1	14	05/24/10	05/25/10 17:11	1029
Toxaphene	ND	ug/kg	280		1	140	05/24/10	05/25/10 17:11	1029

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CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-SED-NW	Date/Time Sampled: 05/20/2010 13:50		PSS Sample ID: 10052118-008						
Matrix: SOIL	Date/Time Received: 05/21/2010 15:40		% Solids: 69						
Polychlorinated Biphenyls	Analytical Method: SW846 8082A				Preparation Method: SW846 3550				
Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst	
PCB-1016	ND mg/kg	0.1		1	0.1	05/25/10	05/26/10 12:51	1029	
PCB-1221	ND mg/kg	0.1		1	0.1	05/25/10	05/26/10 12:51	1029	
PCB-1232	ND mg/kg	0.1		1	0.1	05/25/10	05/26/10 12:51	1029	
PCB-1242	ND mg/kg	0.1		1	0.1	05/25/10	05/26/10 12:51	1029	
PCB-1248	ND mg/kg	0.1		1	0.1	05/25/10	05/26/10 12:51	1029	
PCB-1254	ND mg/kg	0.1		1	0.1	05/25/10	05/26/10 12:51	1029	
PCB-1260	ND mg/kg	0.1		1	0.1	05/25/10	05/26/10 12:51	1029	

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CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-SED-NW		Date/Time Sampled: 05/20/2010 13:50			PSS Sample ID: 10052118-008					
Matrix: SOIL		Date/Time Received: 05/21/2010 15:40			% Solids: 69					
VCP Volatile Organic Compounds		Analytical Method: SW846 8260B					Preparation Method: SW846 5035A			
<i>Sample Preparation Method was SW5030.</i>										
		Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Chloromethane		ND	ug/kg	7	1	3.6	05/28/10	05/28/10 12:22	1011	
Vinyl Chloride		ND	ug/kg	7	1	3.6	05/28/10	05/28/10 12:22	1011	
Bromomethane		ND	ug/kg	7	1	3.6	05/28/10	05/28/10 12:22	1011	
Chloroethane		ND	ug/kg	7	1	3.6	05/28/10	05/28/10 12:22	1011	
Acetone		ND	ug/kg	29	1	14	05/28/10	05/28/10 12:22	1011	
1,1-Dichloroethene		ND	ug/kg	7	1	3.6	05/28/10	05/28/10 12:22	1011	
Methylene Chloride		ND	ug/kg	7	1	3.6	05/28/10	05/28/10 12:22	1011	
trans-1,2-Dichloroethene		ND	ug/kg	7	1	3.6	05/28/10	05/28/10 12:22	1011	
Methyl-t-butyl ether		ND	ug/kg	7	1	3.6	05/28/10	05/28/10 12:22	1011	
1,1-Dichloroethane		ND	ug/kg	7	1	3.6	05/28/10	05/28/10 12:22	1011	
2-Butanone		ND	ug/kg	29	1	14	05/28/10	05/28/10 12:22	1011	
cis-1,2-Dichloroethene		ND	ug/kg	7	1	3.6	05/28/10	05/28/10 12:22	1011	
Chloroform		ND	ug/kg	7	1	3.6	05/28/10	05/28/10 12:22	1011	
1,1,1-Trichloroethane		ND	ug/kg	7	1	3.6	05/28/10	05/28/10 12:22	1011	
1,2-Dichloroethane		ND	ug/kg	7	1	3.6	05/28/10	05/28/10 12:22	1011	
Carbon Tetrachloride		ND	ug/kg	7	1	3.6	05/28/10	05/28/10 12:22	1011	
Benzene		ND	ug/kg	7	1	3.6	05/28/10	05/28/10 12:22	1011	
1,2-Dichloropropane		ND	ug/kg	7	1	3.6	05/28/10	05/28/10 12:22	1011	
Carbon Disulfide		ND	ug/kg	14	1	7.2	05/28/10	05/28/10 12:22	1011	
Trichloroethene		ND	ug/kg	7	1	3.6	05/28/10	05/28/10 12:22	1011	
Bromodichloromethane		ND	ug/kg	7	1	3.6	05/28/10	05/28/10 12:22	1011	
cis-1,3-Dichloropropene		ND	ug/kg	7	1	3.6	05/28/10	05/28/10 12:22	1011	
4-Methyl-2-Pentanone		ND	ug/kg	29	1	14	05/28/10	05/28/10 12:22	1011	
trans-1,3-Dichloropropene		ND	ug/kg	7	1	3.6	05/28/10	05/28/10 12:22	1011	
1,1,2-Trichloroethane		ND	ug/kg	7	1	3.6	05/28/10	05/28/10 12:22	1011	
Toluene		ND	ug/kg	7	1	3.6	05/28/10	05/28/10 12:22	1011	
1,2-Dibromoethane		ND	ug/kg	7	1	3.6	05/28/10	05/28/10 12:22	1011	
Dibromochloromethane		ND	ug/kg	7	1	3.6	05/28/10	05/28/10 12:22	1011	
Bromoform		ND	ug/kg	7	1	3.6	05/28/10	05/28/10 12:22	1011	
Tetrachloroethene		ND	ug/kg	7	1	3.6	05/28/10	05/28/10 12:22	1011	

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-SED-NW	Date/Time Sampled: 05/20/2010 13:50			PSS Sample ID: 10052118-008				
Matrix: SOIL	Date/Time Received: 05/21/2010 15:40			% Solids: 69				
VCP Volatile Organic Compounds	Analytical Method: SW846 8260B			Preparation Method: SW846 5035A				
<i>Sample Preparation Method was SW5030.</i>								
Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Chlorobenzene	ug/kg	7		1	3.6	05/28/10	05/28/10 12:22	1011
Ethylbenzene	ug/kg	7		1	3.6	05/28/10	05/28/10 12:22	1011
m,p-Xylenes	ug/kg	14		1	7.2	05/28/10	05/28/10 12:22	1011
Styrene	ug/kg	7		1	3.6	05/28/10	05/28/10 12:22	1011
1,1,2,2-Tetrachloroethane	ug/kg	7		1	3.6	05/28/10	05/28/10 12:22	1011
o-Xylene	ug/kg	7		1	3.6	05/28/10	05/28/10 12:22	1011
Isopropylbenzene	ug/kg	7		1	3.6	05/28/10	05/28/10 12:22	1011
n-Propylbenzene	ug/kg	7		1	3.6	05/28/10	05/28/10 12:22	1011
1,3,5-Trimethylbenzene	ug/kg	7		1	3.6	05/28/10	05/28/10 12:22	1011
1,2,4-Trimethylbenzene	ug/kg	7		1	3.6	05/28/10	05/28/10 12:22	1011
n-Butylbenzene	ug/kg	7		1	3.6	05/28/10	05/28/10 12:22	1011
1,2-Dibromo-3-Chloropropane	ug/kg	58		1	29	05/28/10	05/28/10 12:22	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-SED-NW	Date/Time Sampled: 05/20/2010 13:50		PSS Sample ID: 10052118-008						
Matrix: SOIL	Date/Time Received: 05/21/2010 15:40		% Solids: 69						
VCP Semivolatile Organic Compounds	Analytical Method: SW846 8270C				Preparation Method: SW846 3550				
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/kg	240	1	120	05/25/10	05/26/10 02:26	1014	
Acenaphthylene	ND	ug/kg	240	1	120	05/25/10	05/26/10 02:26	1014	
Anthracene	ND	ug/kg	240	1	120	05/25/10	05/26/10 02:26	1014	
Benzo(a)anthracene	ND	ug/kg	240	1	120	05/25/10	05/26/10 02:26	1014	
Benzo(a)pyrene	ND	ug/kg	34	1	34	05/25/10	05/26/10 02:26	1014	
Benzo(b)fluoranthene	ND	ug/kg	240	1	120	05/25/10	05/26/10 02:26	1014	
Benzo(g,h,i)perylene	ND	ug/kg	240	1	120	05/25/10	05/26/10 02:26	1014	
Benzo(k)fluoranthene	ND	ug/kg	240	1	120	05/25/10	05/26/10 02:26	1014	
bis(2-chloroethyl) ether	ND	ug/kg	240	1	120	05/25/10	05/26/10 02:26	1014	
bis(2-chloroisopropyl) ether	ND	ug/kg	240	1	120	05/25/10	05/26/10 02:26	1014	
bis(2-ethylhexyl) phthalate	ND	ug/kg	240	1	120	05/25/10	05/26/10 02:26	1014	
Di-n-butyl phthalate	ND	ug/kg	480	1	240	05/25/10	05/26/10 02:26	1014	
Carbazole	ND	ug/kg	240	1	120	05/25/10	05/26/10 02:26	1014	
4-Chloroaniline	ND	ug/kg	480	1	240	05/25/10	05/26/10 02:26	1014	
2-Chloronaphthalene	ND	ug/kg	240	1	120	05/25/10	05/26/10 02:26	1014	
2-Chlorophenol	ND	ug/kg	240	1	120	05/25/10	05/26/10 02:26	1014	
Chrysene	ND	ug/kg	240	1	120	05/25/10	05/26/10 02:26	1014	
Dibenz(a,h)Anthracene	ND	ug/kg	34	1	34	05/25/10	05/26/10 02:26	1014	
Dibenzofuran	ND	ug/kg	240	1	120	05/25/10	05/26/10 02:26	1014	
1,2-Dichlorobenzene	ND	ug/kg	240	1	120	05/25/10	05/26/10 02:26	1014	
1,3-Dichlorobenzene	ND	ug/kg	240	1	120	05/25/10	05/26/10 02:26	1014	
1,4-Dichlorobenzene	ND	ug/kg	240	1	120	05/25/10	05/26/10 02:26	1014	
3,3-Dichlorobenzidine	ND	ug/kg	240	1	120	05/25/10	05/26/10 02:26	1014	
2,4-Dichlorophenol	ND	ug/kg	240	1	120	05/25/10	05/26/10 02:26	1014	
Diethyl phthalate	ND	ug/kg	240	1	120	05/25/10	05/26/10 02:26	1014	
2,4-Dimethylphenol	ND	ug/kg	240	1	120	05/25/10	05/26/10 02:26	1014	
2,4-Dinitrophenol	ND	ug/kg	480	1	240	05/25/10	05/26/10 02:26	1014	
2,4-Dinitrotoluene	ND	ug/kg	240	1	120	05/25/10	05/26/10 02:26	1014	
2,6-Dinitrotoluene	ND	ug/kg	240	1	120	05/25/10	05/26/10 02:26	1014	
Fluoranthene	ND	ug/kg	240	1	120	05/25/10	05/26/10 02:26	1014	

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-SED-NW	Date/Time Sampled: 05/20/2010 13:50		PSS Sample ID: 10052118-008						
Matrix: SOIL	Date/Time Received: 05/21/2010 15:40		% Solids: 69						
VCP Semivolatile Organic Compounds	Analytical Method: SW846 8270C				Preparation Method: SW846 3550				
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Fluorene	ND	ug/kg	240	1	120	05/25/10	05/26/10 02:26	1014	
Hexachlorobenzene	ND	ug/kg	240	1	120	05/25/10	05/26/10 02:26	1014	
Hexachlorobutadiene	ND	ug/kg	240	1	120	05/25/10	05/26/10 02:26	1014	
Hexachlorocyclopentadiene	ND	ug/kg	240	1	120	05/25/10	05/26/10 02:26	1014	
Hexachloroethane	ND	ug/kg	240	1	120	05/25/10	05/26/10 02:26	1014	
Indeno(1,2,3-c,d)Pyrene	ND	ug/kg	240	1	120	05/25/10	05/26/10 02:26	1014	
Isophorone	ND	ug/kg	240	1	120	05/25/10	05/26/10 02:26	1014	
2-Methylnaphthalene	ND	ug/kg	240	1	120	05/25/10	05/26/10 02:26	1014	
2-Methyl phenol	ND	ug/kg	240	1	120	05/25/10	05/26/10 02:26	1014	
3&4-Methylphenol	ND	ug/kg	240	1	120	05/25/10	05/26/10 02:26	1014	
Naphthalene	ND	ug/kg	240	1	120	05/25/10	05/26/10 02:26	1014	
Nitrobenzene	ND	ug/kg	240	1	120	05/25/10	05/26/10 02:26	1014	
N-Nitrosodi-n-propyl amine	ND	ug/kg	96	1	48	05/25/10	05/26/10 02:26	1014	
N-Nitrosodiphenylamine	ND	ug/kg	240	1	120	05/25/10	05/26/10 02:26	1014	
Pentachlorophenol	ND	ug/kg	480	1	240	05/25/10	05/26/10 02:26	1014	
Phenanthrene	ND	ug/kg	240	1	120	05/25/10	05/26/10 02:26	1014	
Phenol	ND	ug/kg	240	1	120	05/25/10	05/26/10 02:26	1014	
Pyrene	ND	ug/kg	240	1	120	05/25/10	05/26/10 02:26	1014	
Bis(2-ethylhexyl)adipate	ND	ug/kg	240	1	120	05/25/10	05/26/10 02:26	1014	
1,2,4-Trichlorobenzene	ND	ug/kg	240	1	120	05/25/10	05/26/10 02:26	1014	
2,4,6-Trichlorophenol	ND	ug/kg	240	1	120	05/25/10	05/26/10 02:26	1014	
2,4,5-Trichlorophenol	ND	ug/kg	240	1	120	05/25/10	05/26/10 02:26	1014	

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CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-14	Date/Time Sampled: 05/20/2010 09:50		PSS Sample ID: 10052118-009	
Matrix: SOIL	Date/Time Received: 05/21/2010 15:40			% Solids: 79

VCP Metals	Analytical Method: SW846 6020A	Preparation Method: SW846 3050B
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	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Mercury	ND	mg/kg	0.10		1	0.05	05/24/10	05/26/10 10:26	1033

Polychlorinated Biphenyls	Analytical Method: SW846 8082A	Preparation Method: SW846 3550
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	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 13:20	1029
PCB-1221	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 13:20	1029
PCB-1232	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 13:20	1029
PCB-1242	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 13:20	1029
PCB-1248	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 13:20	1029
PCB-1254	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 13:20	1029
PCB-1260	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 13:20	1029

Sample ID: AOC-28-22	Date/Time Sampled: 05/20/2010 10:55		PSS Sample ID: 10052118-010	
Matrix: SOIL	Date/Time Received: 05/21/2010 15:40			% Solids: 79

VCP Metals	Analytical Method: SW846 6020A	Preparation Method: SW846 3050B
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	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Mercury	ND	mg/kg	0.10		1	0.05	05/24/10	05/26/10 10:33	1033

Polychlorinated Biphenyls	Analytical Method: SW846 8082A	Preparation Method: SW846 3550
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	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 13:20	1029
PCB-1221	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 13:20	1029
PCB-1232	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 13:20	1029
PCB-1242	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 13:20	1029
PCB-1248	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 13:20	1029
PCB-1254	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 13:20	1029
PCB-1260	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 13:20	1029

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-04	Date/Time Sampled: 05/20/2010 10:20			PSS Sample ID: 10052118-011				
Matrix: SOIL	Date/Time Received: 05/21/2010 15:40					% Solids: 79		

VCP Metals	Analytical Method: SW846 6020A				Preparation Method: SW846 3050B			
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	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Mercury	0.14	mg/kg	0.12		1	0.06	05/24/10	05/26/10 10:40	1033

Polychlorinated Biphenyls	Analytical Method: SW846 8082A				Preparation Method: SW846 3550			
					Clean up Method: SW846 3665A			

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 13:49	1029
PCB-1221	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 13:49	1029
PCB-1232	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 13:49	1029
PCB-1242	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 13:49	1029
PCB-1248	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 13:49	1029
PCB-1254	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 13:49	1029
PCB-1260	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 13:49	1029

Sample ID: AOC-28-21	Date/Time Sampled: 05/20/2010 10:50			PSS Sample ID: 10052118-012				
Matrix: SOIL	Date/Time Received: 05/21/2010 15:40					% Solids: 76		

VCP Metals	Analytical Method: SW846 6020A				Preparation Method: SW846 3050B			
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	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Mercury	ND	mg/kg	0.12		1	0.06	05/24/10	05/26/10 10:47	1033

Polychlorinated Biphenyls	Analytical Method: SW846 8082A				Preparation Method: SW846 3550			
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	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 13:49	1029
PCB-1221	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 13:49	1029
PCB-1232	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 13:49	1029
PCB-1242	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 13:49	1029
PCB-1248	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 13:49	1029
PCB-1254	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 13:49	1029
PCB-1260	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 13:49	1029

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CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-08	Date/Time Sampled: 05/20/2010 10:05	PSS Sample ID: 10052118-013
Matrix: SOIL	Date/Time Received: 05/21/2010 15:40	% Solids: 89

VCP Metals	Analytical Method: SW846 6020A	Preparation Method: SW846 3050B
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	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Mercury	ND	mg/kg	0.11		1	0.05	05/24/10	05/26/10 10:54	1033

Polychlorinated Biphenyls	Analytical Method: SW846 8082A	Preparation Method: SW846 3550
		Clean up Method: SW846 3665A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 14:19	1029
PCB-1221	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 14:19	1029
PCB-1232	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 14:19	1029
PCB-1242	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 14:19	1029
PCB-1248	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 14:19	1029
PCB-1254	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 14:19	1029
PCB-1260	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 14:19	1029

Sample ID: AOC-28-26	Date/Time Sampled: 05/20/2010 11:00	PSS Sample ID: 10052118-014
Matrix: SOIL	Date/Time Received: 05/21/2010 15:40	% Solids: 72

VCP Metals	Analytical Method: SW846 6020A	Preparation Method: SW846 3050B
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	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Mercury	0.15	mg/kg	0.14		1	0.07	05/25/10	05/26/10 20:22	1033

Polychlorinated Biphenyls	Analytical Method: SW846 8082A	Preparation Method: SW846 3550
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	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 14:19	1029
PCB-1221	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 14:19	1029
PCB-1232	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 14:19	1029
PCB-1242	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 14:19	1029
PCB-1248	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 14:19	1029
PCB-1254	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 14:19	1029
PCB-1260	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 14:19	1029

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-05 MS/MSD	Date/Time Sampled: 05/20/2010 08:50	PSS Sample ID: 10052118-015
Matrix: SOIL	Date/Time Received: 05/21/2010 15:40	% Solids: 68

VCP Metals	Analytical Method: SW846 6020A					Preparation Method: SW846 3050B			
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst

Mercury	0.10	mg/kg	0.10	J	1	0.05	05/25/10	05/26/10 19:05	1033
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Polychlorinated Biphenyls	Analytical Method: SW846 8082A					Preparation Method: SW846 3550 Clean up Method: SW846 3665A			
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst

PCB-1016	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 13:00	1029
PCB-1221	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 13:00	1029
PCB-1232	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 13:00	1029
PCB-1242	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 13:00	1029
PCB-1248	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 13:00	1029
PCB-1254	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 13:00	1029
PCB-1260	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 13:00	1029

Sample ID: AOC-28-25	Date/Time Sampled: 05/20/2010 11:15	PSS Sample ID: 10052118-016
Matrix: SOIL	Date/Time Received: 05/21/2010 15:40	% Solids: 76

VCP Metals	Analytical Method: SW846 6020A					Preparation Method: SW846 3050B			
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst

Mercury	0.08	mg/kg	0.12	J	1	0.06	05/25/10	05/26/10 20:28	1033
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Polychlorinated Biphenyls	Analytical Method: SW846 8082A					Preparation Method: SW846 3550			
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst

PCB-1016	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 14:48	1029
PCB-1221	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 14:48	1029
PCB-1232	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 14:48	1029
PCB-1242	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 14:48	1029
PCB-1248	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 14:48	1029
PCB-1254	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 14:48	1029
PCB-1260	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 14:48	1029

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-18	Date/Time Sampled: 05/20/2010 10:45		PSS Sample ID: 10052118-017	
Matrix: SOIL	Date/Time Received: 05/21/2010 15:40			% Solids: 80

VCP Metals	Analytical Method: SW846 6020A	Preparation Method: SW846 3050B
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	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Mercury	0.06	mg/kg	0.11	J	1	0.05	05/25/10	05/26/10 20:35	1033

Polychlorinated Biphenyls	Analytical Method: SW846 8082A	Preparation Method: SW846 3550
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	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 14:48	1029
PCB-1221	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 14:48	1029
PCB-1232	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 14:48	1029
PCB-1242	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 14:48	1029
PCB-1248	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 14:48	1029
PCB-1254	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 14:48	1029
PCB-1260	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 14:48	1029

Sample ID: AOC-28-30	Date/Time Sampled: 05/20/2010 11:30		PSS Sample ID: 10052118-018	
Matrix: SOIL	Date/Time Received: 05/21/2010 15:40			% Solids: 65

VCP Metals	Analytical Method: SW846 6020A	Preparation Method: SW846 3050B
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	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Mercury	0.07	mg/kg	0.13	J	1	0.07	05/25/10	05/26/10 20:42	1033

Polychlorinated Biphenyls	Analytical Method: SW846 8082A	Preparation Method: SW846 3550
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	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 15:18	1029
PCB-1221	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 15:18	1029
PCB-1232	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 15:18	1029
PCB-1242	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 15:18	1029
PCB-1248	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 15:18	1029
PCB-1254	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 15:18	1029
PCB-1260	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 15:18	1029

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-13	Date/Time Sampled: 05/20/2010 09:10	PSS Sample ID: 10052118-019
Matrix: SOIL	Date/Time Received: 05/21/2010 15:40	% Solids: 77

VCP Metals	Analytical Method: SW846 6020A	Preparation Method: SW846 3050B
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	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Mercury	0.08	mg/kg	0.10	J	1	0.05	05/25/10	05/26/10 20:48	1033

Polychlorinated Biphenyls	Analytical Method: SW846 8082A	Preparation Method: SW846 3550
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	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 15:18	1029
PCB-1221	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 15:18	1029
PCB-1232	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 15:18	1029
PCB-1242	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 15:18	1029
PCB-1248	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 15:18	1029
PCB-1254	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 15:18	1029
PCB-1260	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 15:18	1029

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CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-SW-NE	Date/Time Sampled: 05/21/2010 09:05	PSS Sample ID: 10052118-020
Matrix: SURFACE WATER	Date/Time Received: 05/21/2010 15:40	

PP MDE Metals	Analytical Method: SW846 6020A	Preparation Method: SW846 3010A
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	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	05/25/10	05/25/10 17:54	1033
Arsenic	0.8	ug/L	1.0	J	1	0.5	05/25/10	05/28/10 11:23	1033
Beryllium	ND	ug/L	0.5		1	0.5	05/25/10	05/25/10 17:54	1033
Cadmium	ND	ug/L	1.0		1	0.5	05/25/10	05/25/10 17:54	1033
Chromium	ND	ug/L	1.0		1	0.5	05/25/10	05/25/10 17:54	1033
Copper	1.0	ug/L	1.0		1	0.5	05/25/10	05/28/10 11:23	1033
Lead	ND	ug/L	1.0		1	0.5	05/25/10	05/25/10 17:54	1033
Mercury	ND	ug/L	0.20		1	0.1	05/25/10	05/25/10 17:54	1033
Nickel	2.0	ug/L	1.0		1	0.5	05/25/10	05/25/10 17:54	1033
Selenium	ND	ug/L	1.0		1	0.5	05/25/10	05/25/10 17:54	1033
Silver	ND	ug/L	1.0		1	0.5	05/25/10	05/25/10 17:54	1033
Thallium	ND	ug/L	1.0		1	0.5	05/25/10	05/25/10 17:54	1033
Zinc	ND	ug/L	20		1	10	05/25/10	05/25/10 17:54	1033

Total Petroleum Hydrocarbons - DRO	Analytical Method: SW846 8015C	Preparation Method: SW846 3510C
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	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	0.065	mg/L	0.040		1	0.04	05/24/10	05/24/10 14:44	1040

Total Petroleum Hydrocarbons-GRO	Analytical Method: SW846 8015C	Preparation Method: SW846 5030B
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	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	40		1	40	05/24/10	05/24/10 14:06	1035

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CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-SW-NE	Date/Time Sampled: 05/21/2010 09:05		PSS Sample ID: 10052118-020						
Matrix: SURFACE WATER	Date/Time Received: 05/21/2010 15:40								
VCP Organochlorine Pesticides	Analytical Method: SW846 8081B				Preparation Method: SW846 3510C				
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Aldrin	ND	ug/L	0.04	1	0.04	05/24/10	05/25/10 15:47	1029	
alpha-BHC	ND	ug/L	0.04	1	0.04	05/24/10	05/25/10 15:47	1029	
beta-BHC	ND	ug/L	0.04	1	0.04	05/24/10	05/25/10 15:47	1029	
delta-BHC	ND	ug/L	0.08	1	0.04	05/24/10	05/25/10 15:47	1029	
alpha-Chlordane	ND	ug/L	0.08	1	0.04	05/24/10	05/25/10 15:47	1029	
gamma-Chlordane	ND	ug/L	0.08	1	0.04	05/24/10	05/25/10 15:47	1029	
4,4-DDD	ND	ug/L	0.08	1	0.04	05/24/10	05/25/10 15:47	1029	
4,4-DDE	ND	ug/L	0.08	1	0.04	05/24/10	05/25/10 15:47	1029	
4,4-DDT	ND	ug/L	0.08	1	0.04	05/24/10	05/25/10 15:47	1029	
Dieldrin	ND	ug/L	0.04	1	0.04	05/24/10	05/25/10 15:47	1029	
Endosulfan I	ND	ug/L	0.08	1	0.04	05/24/10	05/25/10 15:47	1029	
Endosulfan II	ND	ug/L	0.08	1	0.04	05/24/10	05/25/10 15:47	1029	
Endosulfan sulfate	ND	ug/L	0.08	1	0.04	05/24/10	05/25/10 15:47	1029	
Endrin	ND	ug/L	0.08	1	0.04	05/24/10	05/25/10 15:47	1029	
Endrin aldehyde	ND	ug/L	0.08	1	0.04	05/24/10	05/25/10 15:47	1029	
Endrin ketone	ND	ug/L	0.08	1	0.04	05/24/10	05/25/10 15:47	1029	
gamma-BHC (Lindane)	ND	ug/L	0.08	1	0.04	05/24/10	05/25/10 15:47	1029	
Heptachlor	ND	ug/L	0.08	1	0.04	05/24/10	05/25/10 15:47	1029	
Heptachlor epoxide	ND	ug/L	0.08	1	0.04	05/24/10	05/25/10 15:47	1029	
Methoxychlor	ND	ug/L	0.08	1	0.04	05/24/10	05/25/10 15:47	1029	
Toxaphene	ND	ug/L	2	1	1	05/24/10	05/25/10 15:47	1029	

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No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-SW-NE	Date/Time Sampled: 05/21/2010 09:05	PSS Sample ID: 10052118-020	
Matrix: SURFACE WATER	Date/Time Received: 05/21/2010 15:40		

VCP Polychlorinated Biphenyls	Analytical Method: SW846 8082A			Preparation Method: SW846 3510C			
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	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	ug/L	0.5		1	0.5	05/24/10	05/25/10 13:37	1029
PCB-1221	ND	ug/L	0.5		1	0.5	05/24/10	05/25/10 13:37	1029
PCB-1232	ND	ug/L	0.5		1	0.5	05/24/10	05/25/10 13:37	1029
PCB-1242	ND	ug/L	0.5		1	0.5	05/24/10	05/25/10 13:37	1029
PCB-1248	ND	ug/L	0.5		1	0.5	05/24/10	05/25/10 13:37	1029
PCB-1254	ND	ug/L	0.5		1	0.5	05/24/10	05/25/10 13:37	1029
PCB-1260	ND	ug/L	0.5		1	0.5	05/24/10	05/25/10 13:37	1029

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July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-SW-NE	Date/Time Sampled: 05/21/2010 09:05				PSS Sample ID: 10052118-020				
Matrix: SURFACE WATER	Date/Time Received: 05/21/2010 15:40								
VCP Volatile Organic Compounds	Analytical Method: SW846 8260B				Preparation Method: SW846 5030B				
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Chloromethane	ND	ug/L	1	1	0.5	05/24/10	05/24/10 18:25	1011	
Vinyl Chloride	ND	ug/L	1	1	0.5	05/24/10	05/24/10 18:25	1011	
Bromomethane	ND	ug/L	1	1	0.5	05/24/10	05/24/10 18:25	1011	
Chloroethane	ND	ug/L	1	1	0.5	05/24/10	05/24/10 18:25	1011	
Acetone	ND	ug/L	10	1	5	05/24/10	05/24/10 18:25	1011	
1,1-Dichloroethene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 18:25	1011	
Methylene Chloride	ND	ug/L	1	1	0.5	05/24/10	05/24/10 18:25	1011	
trans-1,2-Dichloroethene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 18:25	1011	
Methyl-t-butyl ether	ND	ug/L	1	1	0.5	05/24/10	05/24/10 18:25	1011	
1,1-Dichloroethane	ND	ug/L	1	1	0.5	05/24/10	05/24/10 18:25	1011	
2-Butanone	ND	ug/L	10	1	5	05/24/10	05/24/10 18:25	1011	
cis-1,2-Dichloroethene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 18:25	1011	
Chloroform	ND	ug/L	1	1	0.5	05/24/10	05/24/10 18:25	1011	
1,1,1-Trichloroethane	ND	ug/L	1	1	0.5	05/24/10	05/24/10 18:25	1011	
1,2-Dichloroethane	ND	ug/L	1	1	0.5	05/24/10	05/24/10 18:25	1011	
Carbon Tetrachloride	ND	ug/L	1	1	0.5	05/24/10	05/24/10 18:25	1011	
Benzene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 18:25	1011	
1,2-Dichloropropane	ND	ug/L	1	1	0.5	05/24/10	05/24/10 18:25	1011	
Trichloroethene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 18:25	1011	
Carbon Disulfide	ND	ug/L	10	1	5	05/24/10	05/24/10 18:25	1011	
Bromodichloromethane	ND	ug/L	1	1	0.5	05/24/10	05/24/10 18:25	1011	
cis-1,3-Dichloropropene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 18:25	1011	
4-Methyl-2-Pentanone	ND	ug/L	5	1	2.5	05/24/10	05/24/10 18:25	1011	
trans-1,3-Dichloropropene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 18:25	1011	
1,1,2-Trichloroethane	ND	ug/L	1	1	0.5	05/24/10	05/24/10 18:25	1011	
Toluene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 18:25	1011	
1,2-Dibromoethane	ND	ug/L	1	1	0.5	05/24/10	05/24/10 18:25	1011	
Dibromochloromethane	ND	ug/L	1	1	0.5	05/24/10	05/24/10 18:25	1011	
Bromoform	ND	ug/L	5	1	2.5	05/24/10	05/24/10 18:25	1011	
Tetrachloroethene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 18:25	1011	

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-SW-NE	Date/Time Sampled: 05/21/2010 09:05	PSS Sample ID: 10052118-020
Matrix: SURFACE WATER	Date/Time Received: 05/21/2010 15:40	

VCP Volatile Organic Compounds Analytical Method: SW846 8260B Preparation Method: SW846 5030B

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Chlorobenzene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 18:25	1011	
Ethylbenzene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 18:25	1011	
m,p-Xylenes	ND	ug/L	2	1	1	05/24/10	05/24/10 18:25	1011	
Styrene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 18:25	1011	
1,1,2,2-Tetrachloroethane	ND	ug/L	1	1	0.5	05/24/10	05/24/10 18:25	1011	
o-Xylene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 18:25	1011	
Isopropylbenzene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 18:25	1011	
n-Propylbenzene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 18:25	1011	
1,3,5-Trimethylbenzene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 18:25	1011	
1,2,4-Trimethylbenzene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 18:25	1011	
n-Butylbenzene	ND	ug/L	1	1	0.5	05/24/10	05/24/10 18:25	1011	
1,2-Dibromo-3-Chloropropane	ND	ug/L	10	1	5	05/24/10	05/24/10 18:25	1011	

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No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-SW-NE	Date/Time Sampled: 05/21/2010 09:05				PSS Sample ID: 10052118-020				
Matrix: SURFACE WATER	Date/Time Received: 05/21/2010 15:40								
VCP Semivolatile Organic Compounds	Analytical Method: SW846 8270C				Preparation Method: SW846 3510C				
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5	1	2.5	05/26/10	05/28/10 05:41	1014	
Acenaphthylene	ND	ug/L	5	1	2.5	05/26/10	05/28/10 05:41	1014	
Anthracene	ND	ug/L	5	1	2.5	05/26/10	05/28/10 05:41	1014	
Benzo(a)anthracene	ND	ug/L	0.5	1	0.5	05/26/10	05/28/10 05:41	1014	
Benzo(a)pyrene	ND	ug/L	0.5	1	0.5	05/26/10	05/28/10 05:41	1014	
Benzo(b)fluoranthene	ND	ug/L	0.5	1	0.5	05/26/10	05/28/10 05:41	1014	
Benzo(g,h,i)perylene	ND	ug/L	5	1	2.5	05/26/10	05/28/10 05:41	1014	
Benzo(k)fluoranthene	ND	ug/L	0.5	1	0.5	05/26/10	05/28/10 05:41	1014	
bis(2-chloroethyl) ether	ND	ug/L	0.5	1	0.5	05/26/10	05/28/10 05:41	1014	
bis(2-chloroisopropyl) ether	ND	ug/L	0.5	1	0.5	05/26/10	05/28/10 05:41	1014	
bis(2-ethylhexyl) phthalate	ND	ug/L	5	1	2.5	05/26/10	05/28/10 05:41	1014	
Di-n-butyl phthalate	ND	ug/L	5	1	2.5	05/26/10	05/28/10 05:41	1014	
Carbazole	ND	ug/L	5	1	2.5	05/26/10	05/28/10 05:41	1014	
4-Chloroaniline	ND	ug/L	10	1	5	05/26/10	05/28/10 05:41	1014	
2-Chloronaphthalene	ND	ug/L	5	1	2.5	05/26/10	05/28/10 05:41	1014	
2-Chlorophenol	ND	ug/L	2	1	2	05/26/10	05/28/10 05:41	1014	
Chrysene	ND	ug/L	2	1	1	05/26/10	05/28/10 05:41	1014	
Dibenz(a,h)Anthracene	ND	ug/L	0.5	1	0.5	05/26/10	05/28/10 05:41	1014	
Dibenzofuran	ND	ug/L	2	1	1	05/26/10	05/28/10 05:41	1014	
1,2-Dichlorobenzene	ND	ug/L	5	1	2.5	05/26/10	05/28/10 05:41	1014	
1,3-Dichlorobenzene	ND	ug/L	1	1	0.5	05/26/10	05/28/10 05:41	1014	
1,4-Dichlorobenzene	ND	ug/L	0.5	1	0.5	05/26/10	05/28/10 05:41	1014	
3,3-Dichlorobenzidine	ND	ug/L	0.5	1	0.5	05/26/10	05/28/10 05:41	1014	
2,4-Dichlorophenol	ND	ug/L	5	1	2.5	05/26/10	05/28/10 05:41	1014	
Diethyl phthalate	ND	ug/L	5	1	2.5	05/26/10	05/28/10 05:41	1014	
2,4-Dimethylphenol	ND	ug/L	5	1	2.5	05/26/10	05/28/10 05:41	1014	
2,4-Dinitrophenol	ND	ug/L	5	1	2.5	05/26/10	05/28/10 05:41	1014	
2,4-Dinitrotoluene	ND	ug/L	5	1	2.5	05/26/10	05/28/10 05:41	1014	
2,6-Dinitrotoluene	ND	ug/L	2	1	1	05/26/10	05/28/10 05:41	1014	
Fluoranthene	ND	ug/L	5	1	2.5	05/26/10	05/28/10 05:41	1014	

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No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-SW-NE	Date/Time Sampled: 05/21/2010 09:05	PSS Sample ID: 10052118-020
Matrix: SURFACE WATER	Date/Time Received: 05/21/2010 15:40	

VCP Semivolatile Organic Compounds	Analytical Method: SW846 8270C	Preparation Method: SW846 3510C
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	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Fluorene	ND	ug/L	5	1	2.5	05/26/10	05/28/10 05:41	1014	
Hexachlorobenzene	ND	ug/L	1	1	0.5	05/26/10	05/28/10 05:41	1014	
Hexachlorobutadiene	ND	ug/L	5	1	2.5	05/26/10	05/28/10 05:41	1014	
Hexachlorocyclopentadiene	ND	ug/L	5	1	2.5	05/26/10	05/28/10 05:41	1014	
Hexachloroethane	ND	ug/L	2	1	1	05/26/10	05/28/10 05:41	1014	
Indeno(1,2,3-c,d)Pyrene	ND	ug/L	0.5	1	0.5	05/26/10	05/28/10 05:41	1014	
Isophorone	ND	ug/L	5	1	2.5	05/26/10	05/28/10 05:41	1014	
2-Methylnaphthalene	ND	ug/L	2	1	1	05/26/10	05/28/10 05:41	1014	
2-Methyl phenol	ND	ug/L	5	1	2.5	05/26/10	05/28/10 05:41	1014	
3&4-Methylphenol	ND	ug/L	5	1	2.5	05/26/10	05/28/10 05:41	1014	
Naphthalene	ND	ug/L	0.5	1	0.5	05/26/10	05/28/10 05:41	1014	
Nitrobenzene	ND	ug/L	2	1	1	05/26/10	05/28/10 05:41	1014	
N-Nitrosodi-n-propyl amine	ND	ug/L	0.5	1	0.5	05/26/10	05/28/10 05:41	1014	
N-Nitrosodiphenylamine	ND	ug/L	5	1	2.5	05/26/10	05/28/10 05:41	1014	
Pentachlorophenol	ND	ug/L	2	1	2	05/26/10	05/28/10 05:41	1014	
Phenanthrene	ND	ug/L	5	1	2.5	05/26/10	05/28/10 05:41	1014	
Phenol	ND	ug/L	5	1	2.5	05/26/10	05/28/10 05:41	1014	
Pyrene	ND	ug/L	5	1	2.5	05/26/10	05/28/10 05:41	1014	
1,2,4-Trichlorobenzene	ND	ug/L	5	1	2.5	05/26/10	05/28/10 05:41	1014	
2,4,6-Trichlorophenol	ND	ug/L	5	1	2.5	05/26/10	05/28/10 05:41	1014	
2,4,5-Trichlorophenol	ND	ug/L	5	1	2.5	05/26/10	05/28/10 05:41	1014	
Bis(2-ethylhexyl)adipate	ND	ug/L	5	1	2.5	05/26/10	05/28/10 05:41	1014	

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-11	Date/Time Sampled: 05/20/2010 09:40		PSS Sample ID: 10052118-021	
Matrix: SOIL	Date/Time Received: 05/21/2010 15:40			% Solids: 80

VCP Metals	Analytical Method: SW846 6020A	Preparation Method: SW846 3050B
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	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Mercury	0.09	mg/kg	0.11	J	1	0.06	05/25/10	05/26/10 20:55	1033

Polychlorinated Biphenyls	Analytical Method: SW846 8082A	Preparation Method: SW846 3550
		Clean up Method: SW846 3665A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 15:47	1029
PCB-1221	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 15:47	1029
PCB-1232	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 15:47	1029
PCB-1242	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 15:47	1029
PCB-1248	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 15:47	1029
PCB-1254	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 15:47	1029
PCB-1260	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 15:47	1029

Sample ID: AOC-28-10	Date/Time Sampled: 05/20/2010 10:15		PSS Sample ID: 10052118-022	
Matrix: SOIL	Date/Time Received: 05/21/2010 15:40			% Solids: 83

VCP Metals	Analytical Method: SW846 6020A	Preparation Method: SW846 3050B
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	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Mercury	ND	mg/kg	0.09		1	0.05	05/25/10	05/26/10 21:01	1033

Polychlorinated Biphenyls	Analytical Method: SW846 8082A	Preparation Method: SW846 3550
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	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 15:47	1029
PCB-1221	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 15:47	1029
PCB-1232	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 15:47	1029
PCB-1242	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 15:47	1029
PCB-1248	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 15:47	1029
PCB-1254	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 15:47	1029
PCB-1260	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 15:47	1029

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CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-15	Date/Time Sampled: 05/20/2010 10:35	PSS Sample ID: 10052118-023
Matrix: SOIL	Date/Time Received: 05/21/2010 15:40	% Solids: 76

VCP Metals	Analytical Method: SW846 6020A	Preparation Method: SW846 3050B
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	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Mercury	ND	mg/kg	0.12		1	0.06	05/25/10	05/26/10 21:08	1033

Polychlorinated Biphenyls	Analytical Method: SW846 8082A	Preparation Method: SW846 3550
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	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 16:16	1029
PCB-1221	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 16:16	1029
PCB-1232	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 16:16	1029
PCB-1242	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 16:16	1029
PCB-1248	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 16:16	1029
PCB-1254	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 16:16	1029
PCB-1260	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 16:16	1029

Sample ID: AOC-28-16	Date/Time Sampled: 05/20/2010 10:40	PSS Sample ID: 10052118-024
Matrix: SOIL	Date/Time Received: 05/21/2010 15:40	% Solids: 80

VCP Metals	Analytical Method: SW846 6020A	Preparation Method: SW846 3050B
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	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Mercury	0.10	mg/kg	0.11	J	1	0.05	05/25/10	05/26/10 21:15	1033

Polychlorinated Biphenyls	Analytical Method: SW846 8082A	Preparation Method: SW846 3550
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	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 16:16	1029
PCB-1221	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 16:16	1029
PCB-1232	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 16:16	1029
PCB-1242	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 16:16	1029
PCB-1248	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 16:16	1029
PCB-1254	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 16:16	1029
PCB-1260	ND	mg/kg	0.1		1	0.1	05/25/10	05/26/10 16:16	1029

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CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: DUP-AOC-28-01	Date/Time Sampled: 05/20/2010 00:00		PSS Sample ID: 10052118-025					
Matrix: SOIL	Date/Time Received: 05/21/2010 15:40		% Solids: 76					
VCP Metals	Analytical Method: SW846 6020A		Preparation Method: SW846 3050B					
Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Mercury	0.14	mg/kg	0.12	1	0.06	05/25/10	05/26/10 21:41	1033
Polychlorinated Biphenyls	Analytical Method: SW846 8082A		Preparation Method: SW846 3550		Clean up Method: SW846 3665A			
Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	mg/kg	0.1	1	0.1	05/25/10	05/26/10 16:46	1029
PCB-1221	ND	mg/kg	0.1	1	0.1	05/25/10	05/26/10 16:46	1029
PCB-1232	ND	mg/kg	0.1	1	0.1	05/25/10	05/26/10 16:46	1029
PCB-1242	ND	mg/kg	0.1	1	0.1	05/25/10	05/26/10 16:46	1029
PCB-1248	ND	mg/kg	0.1	1	0.1	05/25/10	05/26/10 16:46	1029
PCB-1254	ND	mg/kg	0.1	1	0.1	05/25/10	05/26/10 16:46	1029
PCB-1260	ND	mg/kg	0.1	1	0.1	05/25/10	05/26/10 16:46	1029
Sample ID: DUP-AOC-28-02	Date/Time Sampled: 05/20/2010 00:00		PSS Sample ID: 10052118-026					
Matrix: SOIL	Date/Time Received: 05/21/2010 15:40		% Solids: 80					
VCP Metals	Analytical Method: SW846 6020A		Preparation Method: SW846 3050B					
Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Mercury	ND	mg/kg	0.11	1	0.05	05/25/10	05/26/10 21:48	1033
Polychlorinated Biphenyls	Analytical Method: SW846 8082A		Preparation Method: SW846 3550		Clean up Method: SW846 3665A			
Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	mg/kg	0.1	1	0.1	05/26/10	05/27/10 10:34	1029
PCB-1221	ND	mg/kg	0.1	1	0.1	05/26/10	05/27/10 10:34	1029
PCB-1232	ND	mg/kg	0.1	1	0.1	05/26/10	05/27/10 10:34	1029
PCB-1242	ND	mg/kg	0.1	1	0.1	05/26/10	05/27/10 10:34	1029
PCB-1248	ND	mg/kg	0.1	1	0.1	05/26/10	05/27/10 10:34	1029
PCB-1254	ND	mg/kg	0.1	1	0.1	05/26/10	05/27/10 10:34	1029
PCB-1260	ND	mg/kg	0.1	1	0.1	05/26/10	05/27/10 10:34	1029

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CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-07	Date/Time Sampled: 05/20/2010 10:00			PSS Sample ID: 10052118-027				
Matrix: SOIL	Date/Time Received: 05/21/2010 15:40					% Solids: 87		

VCP Metals	Analytical Method: SW846 6020A				Preparation Method: SW846 3050B			
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	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Mercury	0.07	mg/kg	0.11	J	1	0.06	05/25/10	05/26/10 21:54	1033

Polychlorinated Biphenyls	Analytical Method: SW846 8082A				Preparation Method: SW846 3550			
					Clean up Method: SW846 3665A			

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 11:03	1029
PCB-1221	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 11:03	1029
PCB-1232	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 11:03	1029
PCB-1242	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 11:03	1029
PCB-1248	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 11:03	1029
PCB-1254	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 11:03	1029
PCB-1260	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 11:03	1029

Sample ID: AOC-28-23	Date/Time Sampled: 05/20/2010 13:20			PSS Sample ID: 10052118-028				
Matrix: SOIL	Date/Time Received: 05/21/2010 15:40					% Solids: 79		

VCP Metals	Analytical Method: SW846 6020A				Preparation Method: SW846 3050B			
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	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Mercury	0.22	mg/kg	0.11		1	0.06	05/25/10	05/26/10 22:01	1033

Polychlorinated Biphenyls	Analytical Method: SW846 8082A				Preparation Method: SW846 3550			
					Clean up Method: SW846 3665A			

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 11:32	1029
PCB-1221	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 11:32	1029
PCB-1232	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 11:32	1029
PCB-1242	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 11:32	1029
PCB-1248	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 11:32	1029
PCB-1254	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 11:32	1029
PCB-1260	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 11:32	1029

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CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-09	Date/Time Sampled: 05/20/2010 09:00			PSS Sample ID: 10052118-029				
Matrix: SOIL	Date/Time Received: 05/21/2010 15:40					% Solids: 86		

VCP Metals	Analytical Method: SW846 6020A				Preparation Method: SW846 3050B			
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	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Mercury	ND	mg/kg	0.10		1	0.05	05/25/10	05/26/10 22:08	1033

Polychlorinated Biphenyls	Analytical Method: SW846 8082A				Preparation Method: SW846 3550			
					Clean up Method: SW846 3665A			

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 12:02	1029
PCB-1221	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 12:02	1029
PCB-1232	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 12:02	1029
PCB-1242	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 12:02	1029
PCB-1248	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 12:02	1029
PCB-1254	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 12:02	1029
PCB-1260	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 12:02	1029

Sample ID: AOC-28-06	Date/Time Sampled: 05/20/2010 09:30			PSS Sample ID: 10052118-030				
Matrix: SOIL	Date/Time Received: 05/21/2010 15:40					% Solids: 89		

VCP Metals	Analytical Method: SW846 6020A				Preparation Method: SW846 3050B			
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	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Mercury	0.10	mg/kg	0.08		1	0.04	05/25/10	05/26/10 22:15	1033

Polychlorinated Biphenyls	Analytical Method: SW846 8082A				Preparation Method: SW846 3550			
					Clean up Method: SW846 3665A			

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 12:31	1029
PCB-1221	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 12:31	1029
PCB-1232	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 12:31	1029
PCB-1242	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 12:31	1029
PCB-1248	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 12:31	1029
PCB-1254	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 12:31	1029
PCB-1260	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 12:31	1029

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-1	Date/Time Sampled: 05/20/2010 09:20		PSS Sample ID: 10052118-031						
Matrix: SOIL	Date/Time Received: 05/21/2010 15:40		% Solids: 83						
VCP Metals	Analytical Method: SW846 6020A		Preparation Method: SW846 3050B						
	Result	Units	RL	Flag					
Mercury	0.13	mg/kg	0.11	1	0.05	05/25/10	05/26/10 22:21	1033	
Polychlorinated Biphenyls	Analytical Method: SW846 8082A		Preparation Method: SW846 3550						
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 13:00	1029
PCB-1221	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 13:00	1029
PCB-1232	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 13:00	1029
PCB-1242	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 13:00	1029
PCB-1248	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 13:00	1029
PCB-1254	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 13:00	1029
PCB-1260	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 13:00	1029
Sample ID: AOC-28-3	Date/Time Sampled: 05/20/2010 10:15		PSS Sample ID: 10052118-032						
Matrix: SOIL	Date/Time Received: 05/21/2010 15:40		% Solids: 91						
VCP Metals	Analytical Method: SW846 6020A		Preparation Method: SW846 3050B						
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Mercury	0.04	mg/kg	0.08	J	1	0.04	05/25/10	05/26/10 22:28	1033
Polychlorinated Biphenyls	Analytical Method: SW846 8082A		Preparation Method: SW846 3550						
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 13:29	1029
PCB-1221	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 13:29	1029
PCB-1232	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 13:29	1029
PCB-1242	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 13:29	1029
PCB-1248	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 13:29	1029
PCB-1254	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 13:29	1029
PCB-1260	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 13:29	1029

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: DUP-AOC-28-03	Date/Time Sampled: 05/20/2010 00:00	PSS Sample ID: 10052118-033
Matrix: SOIL	Date/Time Received: 05/21/2010 15:40	% Solids: 85

VCP Metals	Analytical Method: SW846 6020A					Preparation Method: SW846 3050B			
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst

Mercury	0.10	mg/kg	0.10	J	1	0.05	05/25/10	05/26/10 22:35	1033
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Polychlorinated Biphenyls	Analytical Method: SW846 8082A					Preparation Method: SW846 3550 Clean up Method: SW846 3665A			
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst

PCB-1016	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 13:29	1029
PCB-1221	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 13:29	1029
PCB-1232	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 13:29	1029
PCB-1242	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 13:29	1029
PCB-1248	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 13:29	1029
PCB-1254	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 13:29	1029
PCB-1260	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 13:29	1029

Sample ID: AOC-28-31	Date/Time Sampled: 05/20/2010 11:10	PSS Sample ID: 10052118-034
Matrix: SOIL	Date/Time Received: 05/21/2010 15:40	% Solids: 79

VCP Metals	Analytical Method: SW846 6020A					Preparation Method: SW846 3050B			
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst

Mercury	ND	mg/kg	0.10		1	0.05	05/25/10	05/26/10 23:48	1033
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Polychlorinated Biphenyls	Analytical Method: SW846 8082A					Preparation Method: SW846 3550 Clean up Method: SW846 3665A			
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst

PCB-1016	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 13:58	1029
PCB-1221	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 13:58	1029
PCB-1232	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 13:58	1029
PCB-1242	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 13:58	1029
PCB-1248	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 13:58	1029
PCB-1254	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 13:58	1029
PCB-1260	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 13:58	1029

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CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-32	Date/Time Sampled: 05/20/2010 11:05		PSS Sample ID: 10052118-035	
Matrix: SOIL	Date/Time Received: 05/21/2010 15:40			% Solids: 76

VCP Metals	Analytical Method: SW846 6020A				Preparation Method: SW846 3050B			
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	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Mercury	0.06	mg/kg	0.12	J	1	0.06	05/25/10	05/26/10 23:54	1033

Polychlorinated Biphenyls	Analytical Method: SW846 8082A				Preparation Method: SW846 3550			
					Clean up Method: SW846 3665A			

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 13:58	1029
PCB-1221	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 13:58	1029
PCB-1232	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 13:58	1029
PCB-1242	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 13:58	1029
PCB-1248	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 13:58	1029
PCB-1254	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 13:58	1029
PCB-1260	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 13:58	1029

Sample ID: AOC-28-24	Date/Time Sampled: 05/20/2010 13:10		PSS Sample ID: 10052118-036	
Matrix: SOIL	Date/Time Received: 05/21/2010 15:40			% Solids: 84

VCP Metals	Analytical Method: SW846 6020A				Preparation Method: SW846 3050B			
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	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Mercury	1.2	mg/kg	0.11		1	0.06	05/25/10	05/27/10 00:01	1033

Polychlorinated Biphenyls	Analytical Method: SW846 8082A				Preparation Method: SW846 3550			
					Clean up Method: SW846 3665A			

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 14:27	1029
PCB-1221	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 14:27	1029
PCB-1232	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 14:27	1029
PCB-1242	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 14:27	1029
PCB-1248	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 14:27	1029
PCB-1254	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 14:27	1029
PCB-1260	ND	mg/kg	0.1		1	0.1	05/26/10	05/27/10 14:27	1029

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-02 MS/MSD	Date/Time Sampled: 05/20/2010 08:55	PSS Sample ID: 10052118-037
Matrix: SOIL	Date/Time Received: 05/21/2010 15:40	% Solids: 77

VCP Metals	Analytical Method: SW846 6020A					Preparation Method: SW846 3050B			
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst

Mercury	0.11	mg/kg	0.12	J	1	0.06	05/25/10	05/26/10 23:15	1033
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Polychlorinated Biphenyls	Analytical Method: SW846 8082A					Preparation Method: SW846 3550 Clean up Method: SW846 3665A			
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst

PCB-1016	ND	mg/kg	0.1		1	0.1	05/27/10	05/28/10 13:08	1029
PCB-1221	ND	mg/kg	0.1		1	0.1	05/27/10	05/28/10 13:08	1029
PCB-1232	ND	mg/kg	0.1		1	0.1	05/27/10	05/28/10 13:08	1029
PCB-1242	ND	mg/kg	0.1		1	0.1	05/27/10	05/28/10 13:08	1029
PCB-1248	ND	mg/kg	0.1		1	0.1	05/27/10	05/28/10 13:08	1029
PCB-1254	ND	mg/kg	0.1		1	0.1	05/27/10	05/28/10 13:08	1029
PCB-1260	ND	mg/kg	0.1		1	0.1	05/27/10	05/28/10 13:08	1029

Sample ID: AOC-28-12	Date/Time Sampled: 05/20/2010 10:25	PSS Sample ID: 10052118-038
Matrix: SOIL	Date/Time Received: 05/21/2010 15:40	% Solids: 78

VCP Metals	Analytical Method: SW846 6020A					Preparation Method: SW846 3050B			
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst

Mercury	ND	mg/kg	0.12		1	0.06	05/25/10	05/27/10 00:28	1033
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Polychlorinated Biphenyls	Analytical Method: SW846 8082A					Preparation Method: SW846 3550			
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst

PCB-1016	ND	mg/kg	0.1		1	0.1	05/27/10	05/28/10 11:12	1029
PCB-1221	ND	mg/kg	0.1		1	0.1	05/27/10	05/28/10 11:12	1029
PCB-1232	ND	mg/kg	0.1		1	0.1	05/27/10	05/28/10 11:12	1029
PCB-1242	ND	mg/kg	0.1		1	0.1	05/27/10	05/28/10 11:12	1029
PCB-1248	ND	mg/kg	0.1		1	0.1	05/27/10	05/28/10 11:12	1029
PCB-1254	ND	mg/kg	0.1		1	0.1	05/27/10	05/28/10 11:12	1029
PCB-1260	ND	mg/kg	0.1		1	0.1	05/27/10	05/28/10 11:12	1029

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CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-17	Date/Time Sampled: 05/20/2010 10:30		PSS Sample ID: 10052118-039	
Matrix: SOIL	Date/Time Received: 05/21/2010 15:40			% Solids: 85

VCP Metals	Analytical Method: SW846 6020A	Preparation Method: SW846 3050B
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	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Mercury	ND	mg/kg	0.10		1	0.05	05/25/10	05/27/10 00:34	1033

Polychlorinated Biphenyls	Analytical Method: SW846 8082A	Preparation Method: SW846 3550
		Clean up Method: SW846 3665A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	mg/kg	0.1		1	0.1	05/27/10	05/28/10 11:42	1029
PCB-1221	ND	mg/kg	0.1		1	0.1	05/27/10	05/28/10 11:42	1029
PCB-1232	ND	mg/kg	0.1		1	0.1	05/27/10	05/28/10 11:42	1029
PCB-1242	ND	mg/kg	0.1		1	0.1	05/27/10	05/28/10 11:42	1029
PCB-1248	ND	mg/kg	0.1		1	0.1	05/27/10	05/28/10 11:42	1029
PCB-1254	ND	mg/kg	0.1		1	0.1	05/27/10	05/28/10 11:42	1029
PCB-1260	ND	mg/kg	0.1		1	0.1	05/27/10	05/28/10 11:42	1029

Sample ID: DUP-AOC-28-04	Date/Time Sampled: 05/20/2010 00:00		PSS Sample ID: 10052118-040	
Matrix: SOIL	Date/Time Received: 05/21/2010 15:40			% Solids: 71

VCP Metals	Analytical Method: SW846 6020A	Preparation Method: SW846 3050B
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	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Mercury	0.09	mg/kg	0.14	J	1	0.07	05/25/10	05/27/10 00:41	1033

Polychlorinated Biphenyls	Analytical Method: SW846 8082A	Preparation Method: SW846 3550
		Clean up Method: SW846 3665A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	mg/kg	0.1		1	0.1	05/27/10	05/28/10 12:11	1029
PCB-1221	ND	mg/kg	0.1		1	0.1	05/27/10	05/28/10 12:11	1029
PCB-1232	ND	mg/kg	0.1		1	0.1	05/27/10	05/28/10 12:11	1029
PCB-1242	ND	mg/kg	0.1		1	0.1	05/27/10	05/28/10 12:11	1029
PCB-1248	ND	mg/kg	0.1		1	0.1	05/27/10	05/28/10 12:11	1029
PCB-1254	ND	mg/kg	0.1		1	0.1	05/27/10	05/28/10 12:11	1029
PCB-1260	ND	mg/kg	0.1		1	0.1	05/27/10	05/28/10 12:11	1029

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CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-SED-NE	Date/Time Sampled: 05/21/2010 09:05		PSS Sample ID: 10052118-041						
Matrix: SOIL	Date/Time Received: 05/21/2010 15:40		% Solids: 75						
PP MDE Metals	Analytical Method: SW846 6020A				Preparation Method: SW846 3050B				
Result Units RL Flag Dil LOD Prepared Analyzed Analyst									
Antimony	ND	mg/kg	2.8	1	1.4	05/25/10	05/27/10 00:47	1033	
Arsenic	3.1	mg/kg	0.3	1	0.3	05/25/10	05/27/10 00:47	1033	
Beryllium	ND	mg/kg	2.8	1	1.4	05/25/10	05/27/10 00:47	1033	
Cadmium	ND	mg/kg	2.8	1	1.4	05/25/10	05/27/10 00:47	1033	
Chromium	20	mg/kg	2.8	1	1.4	05/25/10	05/27/10 00:47	1033	
Copper	11	mg/kg	2.8	1	1.4	05/25/10	05/27/10 00:47	1033	
Lead	7.7	mg/kg	2.8	1	1.4	05/25/10	05/27/10 00:47	1033	
Mercury	ND	mg/kg	0.11	1	0.06	05/25/10	05/27/10 00:47	1033	
Nickel	8.0	mg/kg	2.8	1	1.4	05/25/10	05/27/10 00:47	1033	
Selenium	ND	mg/kg	2.8	1	1.4	05/25/10	05/27/10 00:47	1033	
Silver	ND	mg/kg	2.8	1	1.4	05/25/10	05/27/10 00:47	1033	
Thallium	ND	mg/kg	0.6	1	0.3	05/25/10	05/27/10 00:47	1033	
Zinc	26	mg/kg	11	1	5.7	05/25/10	05/27/10 00:47	1033	
Total Petroleum Hydrocarbons - DRO	Analytical Method: SW846 8015C				Preparation Method: SW846 3550				
TPH-DRO (Diesel Range Organics)	Result Units RL Flag Dil LOD Prepared Analyzed Analyst								
TPH-DRO (Diesel Range Organics)	ND	mg/kg	13	1	6.5	05/27/10	05/27/10 15:59	1040	
Total Petroleum Hydrocarbons-GRO	Analytical Method: SW846 8015C				Preparation Method: SW846 5030				
TPH-GRO (Gasoline Range Organics)	Result Units RL Flag Dil LOD Prepared Analyzed Analyst								
TPH-GRO (Gasoline Range Organics)	ND	ug/kg	130	1	66	05/24/10	05/25/10 01:49	1035	

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CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-SED-NE	Date/Time Sampled: 05/21/2010 09:05		PSS Sample ID: 10052118-041						
Matrix: SOIL	Date/Time Received: 05/21/2010 15:40		% Solids: 75						
VCP Organochlorine Pesticides	Analytical Method: SW846 8081B				Preparation Method: SW846 3550				
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
4,4-DDD	ND	ug/kg	26		1	13	05/24/10	05/25/10 17:11	1029
4,4-DDE	ND	ug/kg	26		1	13	05/24/10	05/25/10 17:11	1029
4,4-DDT	ND	ug/kg	26		1	13	05/24/10	05/25/10 17:11	1029
Aldrin	ND	ug/kg	26		1	13	05/24/10	05/25/10 17:11	1029
alpha-BHC	ND	ug/kg	26		1	13	05/24/10	05/25/10 17:11	1029
alpha-Chlordane	ND	ug/kg	26		1	13	05/24/10	05/25/10 17:11	1029
beta-BHC	ND	ug/kg	26		1	13	05/24/10	05/25/10 17:11	1029
delta-BHC	ND	ug/kg	26		1	13	05/24/10	05/25/10 17:11	1029
Dieldrin	ND	ug/kg	26		1	13	05/24/10	05/25/10 17:11	1029
Endosulfan I	ND	ug/kg	26		1	13	05/24/10	05/25/10 17:11	1029
Endosulfan II	ND	ug/kg	26		1	13	05/24/10	05/25/10 17:11	1029
Endosulfan sulfate	ND	ug/kg	26		1	13	05/24/10	05/25/10 17:11	1029
Endrin	ND	ug/kg	26		1	13	05/24/10	05/25/10 17:11	1029
Endrin aldehyde	ND	ug/kg	26		1	13	05/24/10	05/25/10 17:11	1029
Endrin ketone	ND	ug/kg	26		1	13	05/24/10	05/25/10 17:11	1029
gamma-BHC (Lindane)	ND	ug/kg	26		1	13	05/24/10	05/25/10 17:11	1029
gamma-Chlordane	ND	ug/kg	26		1	13	05/24/10	05/25/10 17:11	1029
Heptachlor	ND	ug/kg	26		1	13	05/24/10	05/25/10 17:11	1029
Heptachlor epoxide	ND	ug/kg	26		1	13	05/24/10	05/25/10 17:11	1029
Methoxychlor	ND	ug/kg	26		1	13	05/24/10	05/25/10 17:11	1029
Toxaphene	ND	ug/kg	260		1	130	05/24/10	05/25/10 17:11	1029

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CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-SED-NE	Date/Time Sampled: 05/21/2010 09:05				PSS Sample ID: 10052118-041			
Matrix: SOIL	Date/Time Received: 05/21/2010 15:40				% Solids: 75			
Polychlorinated Biphenyls	Analytical Method: SW846 8082A				Preparation Method: SW846 3550			
					Clean up Method: SW846 3665A			
Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND mg/kg	0.1		1	0.1	05/25/10	05/26/10 16:46	1029
PCB-1221	ND mg/kg	0.1		1	0.1	05/25/10	05/26/10 16:46	1029
PCB-1232	ND mg/kg	0.1		1	0.1	05/25/10	05/26/10 16:46	1029
PCB-1242	ND mg/kg	0.1		1	0.1	05/25/10	05/26/10 16:46	1029
PCB-1248	ND mg/kg	0.1		1	0.1	05/25/10	05/26/10 16:46	1029
PCB-1254	ND mg/kg	0.1		1	0.1	05/25/10	05/26/10 16:46	1029
PCB-1260	ND mg/kg	0.1		1	0.1	05/25/10	05/26/10 16:46	1029

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CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-SED-NE	Date/Time Sampled: 05/21/2010 09:05				PSS Sample ID: 10052118-041				
Matrix: SOIL	Date/Time Received: 05/21/2010 15:40				% Solids: 75				
VCP Volatile Organic Compounds	Analytical Method: SW846 8260B				Preparation Method: SW846 5035A				
<i>Sample Preparation Method was SW5030.</i>	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Chloromethane	ND	ug/kg	6	1	3.2	05/28/10	05/28/10 12:51	1011	
Vinyl Chloride	ND	ug/kg	6	1	3.2	05/28/10	05/28/10 12:51	1011	
Bromomethane	ND	ug/kg	6	1	3.2	05/28/10	05/28/10 12:51	1011	
Chloroethane	ND	ug/kg	6	1	3.2	05/28/10	05/28/10 12:51	1011	
Acetone	ND	ug/kg	26	1	13	05/28/10	05/28/10 12:51	1011	
1,1-Dichloroethene	ND	ug/kg	6	1	3.2	05/28/10	05/28/10 12:51	1011	
Methylene Chloride	ND	ug/kg	6	1	3.2	05/28/10	05/28/10 12:51	1011	
trans-1,2-Dichloroethene	ND	ug/kg	6	1	3.2	05/28/10	05/28/10 12:51	1011	
Methyl-t-butyl ether	ND	ug/kg	6	1	3.2	05/28/10	05/28/10 12:51	1011	
1,1-Dichloroethane	ND	ug/kg	6	1	3.2	05/28/10	05/28/10 12:51	1011	
2-Butanone	ND	ug/kg	26	1	13	05/28/10	05/28/10 12:51	1011	
cis-1,2-Dichloroethene	ND	ug/kg	6	1	3.2	05/28/10	05/28/10 12:51	1011	
Chloroform	ND	ug/kg	6	1	3.2	05/28/10	05/28/10 12:51	1011	
1,1,1-Trichloroethane	ND	ug/kg	6	1	3.2	05/28/10	05/28/10 12:51	1011	
1,2-Dichloroethane	ND	ug/kg	6	1	3.2	05/28/10	05/28/10 12:51	1011	
Carbon Tetrachloride	ND	ug/kg	6	1	3.2	05/28/10	05/28/10 12:51	1011	
Benzene	ND	ug/kg	6	1	3.2	05/28/10	05/28/10 12:51	1011	
1,2-Dichloropropane	ND	ug/kg	6	1	3.2	05/28/10	05/28/10 12:51	1011	
Carbon Disulfide	ND	ug/kg	13	1	6.5	05/28/10	05/28/10 12:51	1011	
Trichloroethene	ND	ug/kg	6	1	3.2	05/28/10	05/28/10 12:51	1011	
Bromodichloromethane	ND	ug/kg	6	1	3.2	05/28/10	05/28/10 12:51	1011	
cis-1,3-Dichloropropene	ND	ug/kg	6	1	3.2	05/28/10	05/28/10 12:51	1011	
4-Methyl-2-Pentanone	ND	ug/kg	26	1	13	05/28/10	05/28/10 12:51	1011	
trans-1,3-Dichloropropene	ND	ug/kg	6	1	3.2	05/28/10	05/28/10 12:51	1011	
1,1,2-Trichloroethane	ND	ug/kg	6	1	3.2	05/28/10	05/28/10 12:51	1011	
Toluene	ND	ug/kg	6	1	3.2	05/28/10	05/28/10 12:51	1011	
1,2-Dibromoethane	ND	ug/kg	6	1	3.2	05/28/10	05/28/10 12:51	1011	
Dibromochloromethane	ND	ug/kg	6	1	3.2	05/28/10	05/28/10 12:51	1011	
Bromoform	ND	ug/kg	6	1	3.2	05/28/10	05/28/10 12:51	1011	
Tetrachloroethene	ND	ug/kg	6	1	3.2	05/28/10	05/28/10 12:51	1011	

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-SED-NE	Date/Time Sampled: 05/21/2010 09:05			PSS Sample ID: 10052118-041				
Matrix: SOIL	Date/Time Received: 05/21/2010 15:40			% Solids: 75				
VCP Volatile Organic Compounds	Analytical Method: SW846 8260B			Preparation Method: SW846 5035A				
<i>Sample Preparation Method was SW5030.</i>								
Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Chlorobenzene	ug/kg	6		1	3.2	05/28/10	05/28/10 12:51	1011
Ethylbenzene	ug/kg	6		1	3.2	05/28/10	05/28/10 12:51	1011
m,p-Xylenes	ug/kg	13		1	6.5	05/28/10	05/28/10 12:51	1011
Styrene	ug/kg	6		1	3.2	05/28/10	05/28/10 12:51	1011
1,1,2,2-Tetrachloroethane	ug/kg	6		1	3.2	05/28/10	05/28/10 12:51	1011
o-Xylene	ug/kg	6		1	3.2	05/28/10	05/28/10 12:51	1011
Isopropylbenzene	ug/kg	6		1	3.2	05/28/10	05/28/10 12:51	1011
n-Propylbenzene	ug/kg	6		1	3.2	05/28/10	05/28/10 12:51	1011
1,3,5-Trimethylbenzene	ug/kg	6		1	3.2	05/28/10	05/28/10 12:51	1011
1,2,4-Trimethylbenzene	ug/kg	6		1	3.2	05/28/10	05/28/10 12:51	1011
n-Butylbenzene	ug/kg	6		1	3.2	05/28/10	05/28/10 12:51	1011
1,2-Dibromo-3-Chloropropane	ug/kg	52		1	26	05/28/10	05/28/10 12:51	1011

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CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-SED-NE	Date/Time Sampled: 05/21/2010 09:05		PSS Sample ID: 10052118-041						
Matrix: SOIL	Date/Time Received: 05/21/2010 15:40		% Solids: 75						
VCP Semivolatile Organic Compounds	Analytical Method: SW846 8270C				Preparation Method: SW846 3550				
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/kg	220	1	110	05/25/10	05/26/10 02:55	1014	
Acenaphthylene	ND	ug/kg	220	1	110	05/25/10	05/26/10 02:55	1014	
Anthracene	ND	ug/kg	220	1	110	05/25/10	05/26/10 02:55	1014	
Benzo(a)anthracene	ND	ug/kg	220	1	110	05/25/10	05/26/10 02:55	1014	
Benzo(a)pyrene	ND	ug/kg	31	1	31	05/25/10	05/26/10 02:55	1014	
Benzo(b)fluoranthene	ND	ug/kg	220	1	110	05/25/10	05/26/10 02:55	1014	
Benzo(g,h,i)perylene	ND	ug/kg	220	1	110	05/25/10	05/26/10 02:55	1014	
Benzo(k)fluoranthene	ND	ug/kg	220	1	110	05/25/10	05/26/10 02:55	1014	
bis(2-chloroethyl) ether	ND	ug/kg	220	1	110	05/25/10	05/26/10 02:55	1014	
bis(2-chloroisopropyl) ether	ND	ug/kg	220	1	110	05/25/10	05/26/10 02:55	1014	
bis(2-ethylhexyl) phthalate	ND	ug/kg	220	1	110	05/25/10	05/26/10 02:55	1014	
Di-n-butyl phthalate	ND	ug/kg	440	1	220	05/25/10	05/26/10 02:55	1014	
Carbazole	ND	ug/kg	220	1	110	05/25/10	05/26/10 02:55	1014	
4-Chloroaniline	ND	ug/kg	440	1	220	05/25/10	05/26/10 02:55	1014	
2-Chloronaphthalene	ND	ug/kg	220	1	110	05/25/10	05/26/10 02:55	1014	
2-Chlorophenol	ND	ug/kg	220	1	110	05/25/10	05/26/10 02:55	1014	
Chrysene	ND	ug/kg	220	1	110	05/25/10	05/26/10 02:55	1014	
Dibenz(a,h)Anthracene	ND	ug/kg	31	1	31	05/25/10	05/26/10 02:55	1014	
Dibenzofuran	ND	ug/kg	220	1	110	05/25/10	05/26/10 02:55	1014	
1,2-Dichlorobenzene	ND	ug/kg	220	1	110	05/25/10	05/26/10 02:55	1014	
1,3-Dichlorobenzene	ND	ug/kg	220	1	110	05/25/10	05/26/10 02:55	1014	
1,4-Dichlorobenzene	ND	ug/kg	220	1	110	05/25/10	05/26/10 02:55	1014	
3,3-Dichlorobenzidine	ND	ug/kg	220	1	110	05/25/10	05/26/10 02:55	1014	
2,4-Dichlorophenol	ND	ug/kg	220	1	110	05/25/10	05/26/10 02:55	1014	
Diethyl phthalate	ND	ug/kg	220	1	110	05/25/10	05/26/10 02:55	1014	
2,4-Dimethylphenol	ND	ug/kg	220	1	110	05/25/10	05/26/10 02:55	1014	
2,4-Dinitrophenol	ND	ug/kg	440	1	220	05/25/10	05/26/10 02:55	1014	
2,4-Dinitrotoluene	ND	ug/kg	220	1	110	05/25/10	05/26/10 02:55	1014	
2,6-Dinitrotoluene	ND	ug/kg	220	1	110	05/25/10	05/26/10 02:55	1014	
Fluoranthene	ND	ug/kg	220	1	110	05/25/10	05/26/10 02:55	1014	

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10052118

ARGO Systems, Glen Burnie, MD

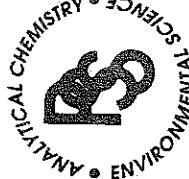
July 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-SED-NE	Date/Time Sampled: 05/21/2010 09:05		PSS Sample ID: 10052118-041						
Matrix: SOIL	Date/Time Received: 05/21/2010 15:40		% Solids: 75						
VCP Semivolatile Organic Compounds	Analytical Method: SW846 8270C				Preparation Method: SW846 3550				
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Fluorene	ND	ug/kg	220	1	110	05/25/10	05/26/10 02:55	1014	
Hexachlorobenzene	ND	ug/kg	220	1	110	05/25/10	05/26/10 02:55	1014	
Hexachlorobutadiene	ND	ug/kg	220	1	110	05/25/10	05/26/10 02:55	1014	
Hexachlorocyclopentadiene	ND	ug/kg	220	1	110	05/25/10	05/26/10 02:55	1014	
Hexachloroethane	ND	ug/kg	220	1	110	05/25/10	05/26/10 02:55	1014	
Indeno(1,2,3-c,d)Pyrene	ND	ug/kg	220	1	110	05/25/10	05/26/10 02:55	1014	
Isophorone	ND	ug/kg	220	1	110	05/25/10	05/26/10 02:55	1014	
2-Methylnaphthalene	ND	ug/kg	220	1	110	05/25/10	05/26/10 02:55	1014	
2-Methyl phenol	ND	ug/kg	220	1	110	05/25/10	05/26/10 02:55	1014	
3&4-Methylphenol	ND	ug/kg	220	1	110	05/25/10	05/26/10 02:55	1014	
Naphthalene	ND	ug/kg	220	1	110	05/25/10	05/26/10 02:55	1014	
Nitrobenzene	ND	ug/kg	220	1	110	05/25/10	05/26/10 02:55	1014	
N-Nitrosodi-n-propyl amine	ND	ug/kg	89	1	44	05/25/10	05/26/10 02:55	1014	
N-Nitrosodiphenylamine	ND	ug/kg	220	1	110	05/25/10	05/26/10 02:55	1014	
Pentachlorophenol	ND	ug/kg	440	1	220	05/25/10	05/26/10 02:55	1014	
Phenanthrene	ND	ug/kg	220	1	110	05/25/10	05/26/10 02:55	1014	
Phenol	ND	ug/kg	220	1	110	05/25/10	05/26/10 02:55	1014	
Pyrene	ND	ug/kg	220	1	110	05/25/10	05/26/10 02:55	1014	
Bis(2-ethylhexyl)adipate	ND	ug/kg	220	1	110	05/25/10	05/26/10 02:55	1014	
1,2,4-Trichlorobenzene	ND	ug/kg	220	1	110	05/25/10	05/26/10 02:55	1014	
2,4,6-Trichlorophenol	ND	ug/kg	220	1	110	05/25/10	05/26/10 02:55	1014	
2,4,5-Trichlorophenol	ND	ug/kg	220	1	110	05/25/10	05/26/10 02:55	1014	

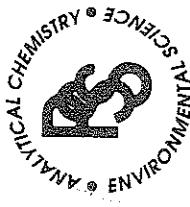


SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

PHASE SEPARATION SCIENCE, INC.

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① CLIENT:	EPA		OFFICE LOC.	Sparks, MD		PSS Work Order #:	10052118		PAGE	/	OF	8
PROJECT MGR:	(4)		PHONE NO.:	(410) 329-5744		Matrix Codes:						
EMAIL:	(4)		FAX NO.:	(410) 371-4204		SW=Surface Wtr	GW=Ground Wtr	WW=Waste Wtr	WS=Soil	ML=Waste Solid	WS=Waste Liquid	
PROJECT NAME:	NTRB		PROJECT NO.:	146289		No.	Preservatives Used	Drinking Water	Analysis Method Required	REMARKS		
SITE LOCATION:	Port Deposit		P.O. NO.:	(4)		C = O	SAMPLE TYPE	Method				
SAMPLERS:			DATE	TIME	MATRIX (See Codes)	N	C = COMP					
② LAB NO.	SAMPLE IDENTIFICATION					A	G = GRAB					
1	*AOC-28-SW-SW-Sediment		1410	SW	30	N	E					
2	*AOC-28-SW-Nw		1350		10	I	X	X	X			
3	*AOC-28-SW-SE		1450		10	I	X	X	X			
4	*Dup-AOC-28-SW-01		-		10	I	X	X	X			
5	*Dup-SED-01		-	SED	5	I	X	X	X			
6	*AOC-28-SED-SW		1410		15	I	X	X	X			
7	*AOC-28-SED-SE		1450		5	I	X	X	X			
8	*AOC-28-SED-Nw		1350		5	I	X	X	X			
9	AOC-28-14		0950	S	1	I	X	X	X			
10	AOC-28-22		1055	V	1	V	X	X	X			
③ Relinquished By: (1) (4)			Date	Time	Received By:			# of Coolers:		9		
④ Relinquished By: (2) (4)			Date	Time	Received By:			5-Day		3-Day	2-Day	
⑤ Relinquished By: (3) (4)			Date	Time	Received By:			Next Day		Emergency	Other	
Data Deliverables Required:		Customer Seal: ABS										
		Ice/Refrigerant: PBS Temp: 5°C										
		Shipping Carrier: DHL										
Special Instructions:												
Relinquished By: (4)	Date	Time	Received By:									
Relinquished By: (5)	Date	Time	Received By:									
Relinquished By: (6)	Date	Time	Received By:									



SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

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① CLIENT: <u>EPD</u>	OFFICE LOC. <u>Sparks MD</u>	PSS Work Order # <u>10062118</u>	PAGE <u>2</u> OF <u>8</u>		
PROJECT MGR: <u>(4) (5)</u>	PHONE NO.: <u>(410) 329-5114</u>	Matrix Codes: SW=Surface Wtr, DW=Drinking Wtr, GW=Ground Wtr, MW=Oil & Soil, SW=Soil, WL=Waste Wtr, O=Oil, S=Soil, W=Waste Liquid			
EMAIL: <u>(4) (5) Client.acm</u>	FAX NO.: <u>(410) 771-4204</u>	No. Preservatives Used			
PROJECT NAME: <u>NTCB</u>	PROJECT NO.: <u>1412309</u>	SAMPLE TYPE			
SITE LOCATION: <u>Port Deposit</u>	P.O. NO.: <u>(4) (5)</u>	Analysis Method Required			
SAMPLERS: <u>[REDACTED]</u>		C = COMP	<u>(3)</u>		
LAB NO.	SAMPLE IDENTIFICATION	TIME	MATRIX	REMARKS	
11	AOC-28-04	5/20/10 1020	5	1 5	*HClane is identified above
12	AOC-28-21	1050	1	X X	Kosid fol/Clangs
13	AOC-28-08	1005	1	X X	Standby sample should be analyzed for Hg before running
14	AOC-28-24	1100	1	X X	Mineral Oil
15	AOC-28-05 MD	0858	3	X X X	Water in EA
16	AOC-28-25	1115	1	X X	before running
17	AOC-28-18	1045	1	X X	
18	AOC-28-30	1130	1	X X	
19	AOC-28-13	0910	1	X X	
20	AOC-28-30-NC	5/21/10 0905	SW ID ✓	X X X-X-X	
②	Relinquished By: <u>(4)</u>	Date <u>5/21/10</u>	Time <u>1335</u>	# of Coolers: <u>9</u>	
				<input type="checkbox"/> 5-Day <input type="checkbox"/> 3-Day <input type="checkbox"/> 2-Day <input type="checkbox"/> Next Day <input type="checkbox"/> Emergency <input checked="" type="checkbox"/> Other	
	Relinquished By: <u>(4)</u>	Date <u>5/21/10</u>	Time <u>1545</u>	Data Deliverables Required: <u>(b) (4)</u>	
	Relinquished By: <u>(4)</u>	Date	Time	Received By:	
	Relinquished By: <u>(4)</u>	Date	Time	Received By:	
				Special Instructions:	

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The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all reasonable fees if collection becomes necessary.



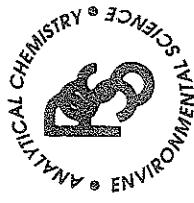
SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

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① CLIENT:	EPIC	OFFICE LOC.	Sparks, MD	PSS Work Order #:	10052118	PAGE <u>3</u> OF <u>8</u>
PROJECT MGR:	(4) [REDACTED]	PHONE NO.:	(410) 329-5144	Matrix codes: SM=Surface Wtr DW=Drinking Wtr GW=Ground Wtr WS=Waste Solid WS=Waste Liquid WL=Waste Wtr S=Soil O=Oil		
EMAIL:	(4) [REDACTED]@west.com	FAX NO.:	(410) 771-4204			
PROJECT NAME:	WTCB	PROJECT NO.:	462301	No.	Preservatives Used	Analysis/Method Required
SITE LOCATION:	Balt Deposit	P.O. NO.:	(4) [REDACTED]	C = O N T A	COMP	③
SAMPLERS:	[REDACTED]	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX (See Codes)	REMARKS
② LAB NO.						
21	AOC-28-11	5/20/10	0840	5	X X	
22	AOC-28-10		1015	1	X X	
23	AOC-28-15		1035		X X	
24	AOC-28-16		1040		X X	
25	Dep-Acc-28-01		-		X X	
26	Dep-Acc-28-02				X X	
27	AOC-28-07		1000		X X	
28	AOC-28-23		1320		X X	
29	AOC-28-09		0900		X X	
30	AOC-28-06			0930	X X	
⑤ Relinquished By: (4)	(b) (4)	Date: 5/21/10	Time: 1222	Received By: (b) (4)	Received By: (b) (4)	④ Requested Turnaround Time <input type="checkbox"/> 5-Day <input type="checkbox"/> 3-Day <input type="checkbox"/> 2-Day <input type="checkbox"/> Next Day <input type="checkbox"/> Emergency <input checked="" type="checkbox"/> Other Data Deliverables Required: (b) (4)
Relinquished By: (3)		Date /	Time	Received By:		⑤ # of Coolers: 9 Custody Seal: ABS Ice Present: YES Temp: 52° Shipping Carrier: DHL
Relinquished By: (4)		Date	Time	Received By:		Special Instructions:

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SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

PHASE SEPARATION SCIENCE, INC.

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① CLIENT:	EPH	OFFICE LOC.	Sparks, MD	PAGE	4	OF	8
PROJECT MGR:	(4)	PHONE NO.:	(40) 329-514	Matrix Codes:	PSS Work Order # 10052118		
EMAIL:	(4)	FAX NO.:	(40) 771-4704	SM=Surface Wtr DW=Drinking Wtr GM=Ground Wtr MM=Waste Wtr SW=Soil W=Oil S=Waste Liquid WS=Waste Solid W=Wipe			
PROJECT NAME:	WTRB	PROJECT NO.:	40789	No. C O N T A R S			
SITE LOCATION:	Port Deposit	PO. NO.:		C = COMP			
SAMPLERS:		(b) (4)	MATRIX	G = GRAB			
LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	S	REMARKS		
31	AOC-28-1	2010-09-20	5	1	X X		
32	AOC-28-3	1015	-	1	X X		
33	AOC-28-03	-		1	X X		
34	AOC-28-31	1110	-	1	X X		
35	AOC-28-32	1105	-	1	X X		
36	AOC-28-24	1310	-	1	X X		
37	AOC-28-02 NSD	0855	3	1	X X		
38	AOC-28-12	1025	-	1	X X		
39	AOC-28-17	1020	-	1	X X		
40	AOC-28-04	-		1	X X		
⑤ Relinquished By: (4)	Date: 5/21/10	Time: 12:22	Received By: (b) (4)	④ Requested Turnaround Time	# of Coolers: 9		
Relinquished By: (4)	Date: 5/21/10	Time: 15:00	Received By: (b) (4)	5-Day <input type="checkbox"/> 3-Day <input type="checkbox"/> 2-Day <input type="checkbox"/> Next Day <input type="checkbox"/> Emergency <input type="checkbox"/> Other <input type="checkbox"/>	Custody Seal: PSS		
Relinquished By: (4)	Date:	Time:	Received By:	Data Deliverables Required:	Log Present: 055 Temp: 35°C Shipping Carrier: DHL		
Relinquished By: (4)	Date:	Time:	Received By:	Special Instructions:			

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email: info@phaseonline.com

① CLIENT:	EPD	OFFICE LOC.	Sparks MD	PSS Work Order #	10052118	PAGE	3	OF	8		
PROJECT MGR:		PHONE NO.:	(410) 329-5114	Matrix Codes: SW=Surface Wtr DW=Drinking Wtr GW=Ground Wtr MM=Waste Wtr O=Oil S=Soil W=Waste Solid WS=Waste Liquid WS=Waste Solid W=Wipe							
EMAIL:	(410) 967-1111 FAX NO.:	(410) 771-4204	PROJECT NO.:	1412309	No.	Preservatives Used	Remarks				
PROJECT NAME:	NTC B	SITE LOCATION:	Port + Deposit	P.O. NO.:	④(5)	SAMPLE TYPE	Analysis Method Required				
SAMPLERS:		LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	C = COMP	③				
	41	AOC-38-566-NC	5/12/10 0905	SED	5	N	G = GFAB	*S Change S identified above Residential Camp			
	42	EB-11	1000 SW	7	1	A		Sample should be analyzed for HexChloro m and V Pesticide information			
	43	EB-12	1005	2	1			before sending!			
	44	TB-01	5/11/10 -	2	X						
	45	AOC-3-4910-2	5/12/10 1100	5	1						
	46	AOC-3-3910-2 MS/MSD	1345	3							
	47	AOC-3-5010-2	1020	1							
	48	AOC-3-2310-2 *	1315	1							
	49	AOC-3-4610-2	1005	V							
②											
③											
④											
⑤											
Delivered By:	(4)	Date:	5/12/10	Time:	1:32	Received By:	(b)	Requested Turnaround Time:	# of Coolers:	9	
Delivered By:	(b) (4)	Date:	5/11/10	Time:	1540	Received By:	(b) (4)	<input type="checkbox"/> 5-Day	<input type="checkbox"/> 3-Day	<input type="checkbox"/> 2-Day	
Relinquished By:	(3)	Date:		Time:		Relinquished By:		<input type="checkbox"/> Next Day	<input type="checkbox"/> Emergency	<input checked="" type="checkbox"/> Other	
Relinquished By:	(4)	Date:		Time:		Relinquished By:		Ice Present:	YES	Temp:	50°
								Shipping Carrier:	DHL		
Special Instructions:											

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The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary.



SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

PHASE SEPARATION SCIENCE, INC.

www.phaseonline.com
email: info@phaseonline.com

CLIENT: LEPIT		OFFICE LOC. Spn. Ks, MD		PAGE 6 OF 8	
PROJECT MGR: [REDACTED]	PHONE NO.: (410) 324-5114				
EMAIL: [REDACTED] (4) FAX NO: [REDACTED]	PROJECT NO.: 146,235				
PROJECT NAME: NTCB	P.O. NO.: [REDACTED]				
SITE LOCATION: Port Deposit	SAMPLERS: [REDACTED] (4)				
LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX (See Codes)	REMARKS
50	*AOC-31110-2	5/12/10	1200	S	X X
51	*AOC-3-410-2	1100			
52	*AOC-3-1610-2	1245			
53	*AOC-3-4810-2	1035			
54	AOC-3-2110-2	5/13/10	0810		
55	D2-AOC-3-10	5/12/10	-		
56	*AOC-3-4210-2	5/12/10	1120		
57	*AOC-3-3810-2	5/13/10	0830		
58	R-5012-4	5/11/10	0845	V	X X
59	R-5012-4	5/11/10	1220	V	
60	R-5012-4	5/11/10	1545	V	
Relinquished By: (1) (4) (b) (4)		Date: 5/12/10	Time: 1220	Received By: [REDACTED]	Request Turnaround Time: 5-Day
Relinquished By: (2) (b) (4)		Date: 5/11/10	Time: 1545	Received By: [REDACTED]	Request Turnaround Time: 3-Day
Relinquished By: (3)		Date: [REDACTED]	Time: [REDACTED]	Received By: [REDACTED]	Request Turnaround Time: Emergency
Relinquished By: (4)		Date: [REDACTED]	Time: [REDACTED]	Received By: [REDACTED]	Request Turnaround Time: 2-Day
		Date: [REDACTED]	Time: [REDACTED]	Received By: [REDACTED]	Request Turnaround Time: Other
		Date: [REDACTED]	Time: [REDACTED]	Received By: [REDACTED]	Ice Present: PBS Temp: 5°C
		Date: [REDACTED]	Time: [REDACTED]	Received By: [REDACTED]	Shipping Carrier: DHL
Special Instructions:					

ANALYTICAL CHEMISTRY • ENVIRONMENTAL SCIENCE

SAMPLE CHAIN OF CUSTODY
SEPARATION SCIENCE, INC.

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email: info@phaseonline.com

1 CLIENT: EPA		OFFICE LOC: Sparks, MD						
PROJECT MGR: (4) (6)		PHONE NO.: (410) 329-5114						
EMAIL: (4) (6)		FAX NO.: (410) 771-4204						
PROJECT NAME: N7C.B		PROJECT NO: 14(6)301						
SITE LOCATION: Part Depts & P.O. NO.: (4) (6)								
SAMPLERS		REMARKS						
2 LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX (See Codes)	Preservatives Used	Analysis/ Method Required	C = COMP	G = GRAB
59	NR-1112-4	5/4/10	0900	S	X	X	③	
60	NR-512-4	5/4/10	1330					
61	R-10912-4	5/6/10	0855					
62	NR-4412-4	5/3/10	1045					
63	NR-4312-4	5/3/10	1020					
64	NR-812-4	5/4/10	0925					
65	R-3312-4	5/4/10	1315					
66	NR-3912-4	5/7/10	1440					
67	* Roc-3411-102	5/12/10	1400					
68	* Roc-30c-3-11	5/12/10	-					
5 Relinquished By: (3) (4) (b) (4) (b) (4)		Date: 5/21/10	Time: 12:00	Received By: (4) (b) (4)		5 Requested Turnaround Time <input type="checkbox"/> 5-Day <input type="checkbox"/> 3-Day <input type="checkbox"/> Next Day <input type="checkbox"/> Emergency <input checked="" type="checkbox"/> Other		
Relinquished By: (4)		Date: 5/21/10	Time: 1540	Received By: (4) (b)		Data Deliverables Required: (4) (b)		
Relinquished By: (3)		Date:	Time:	Received By:		Special Instructions:		
Relinquished By: (4)		Date:	Time:	Received By:				

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SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

PHASE SEPARATION SCIENCE, INC.

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1 CLIENT:	EPD	OFFICE LOC.	Spokane, MD	PSS Work Order #	10052118	PAGE	8	OF	8
PROJECT MGR:	(4)(b)	PHONE NO.:	(4)(b) 324-5144	Matrix Codes: SW=Surface Wtr DW=Drinking Wtr GM=Ground Wtr WW=Waste Wtr O=Oil S=Soil M=Solid W=Wipe					
EMAIL:	(4)(b)	FAX NO.:	(4)(b) 771-4204	No.	C	SAMPLE TYPE	Preservatives Used	Analysis/Method Required	REMARKS
PROJECT NAME:	NTCB	PROJECT NO.:	(4)(b) 2381	O	N				(4)(b) Hazardous Waste
SITE LOCATION:	Fact Deposit	P.O. NO.:	(4)(b)	A	T	C = COMP			(4)(b) Identified as Residate/Sludge
SAMPLERS:				I	N	G = GRAB			(4)(b) standard sample should be used for HAZ waste, Non-HAZ waste 1 after ETI before runoff,
2	LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX (See Codes)				
69	X AOC-3-18/0-2	5/11/0	1230	S	1	(5)	X	X	(4)(b) 1st Chrome S
70	X AOC-3-34/0-2	5/12/0	1450	-	1		X	X	(4)(b) should be analyzed
71	X PUP-DOC-3-12				1				(4)(b) for HAZ waste, Non-HAZ waste
72	X AOC-3-30/0-2	5/11/0	1305		1				(4)(b) 1st ETI
73	X AOC-3-13/0-2	5/11/0	0900		1				(4)(b) before runoff
74	X AOC-3-31/0-2	5/12/0	1245		1				
75	X AOC-3-20/0-2		0930		1				
76	X AOC-3-28/0-2		1410		1				
77	X AOC-3-25/0-2	5/11/0	1000		1				
78	X AOC-3-30/0-2	5/12/0	1310		1				
3	Relinquished By:	Date	Received By	Time	Received By	Time	Requested Turnaround Time	# of Coolers	
	(4)(b)	(4)(b)	(4)(b)	(4)(b)	(4)(b)	(4)(b)	<input type="checkbox"/> 5-Day <input type="checkbox"/> Next Day	<input type="checkbox"/> 3-Day <input type="checkbox"/> Emergency	<input type="checkbox"/> 2-Day <input type="checkbox"/> Other
Relinquished By:	Date	Received By	Time	Received By	Time	Data Deliverables Required:	Present: PSS	Temp: 52	Carrier: DIAL
Relinquished By: (3)	Date	Time	Received By:			Special Instructions:			
Relinquished By: (4)	Date	Time	Received By:						

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Phase Separation Science, Inc

Sample Receipt Checklist

Wo Number	10052118	Received By	(b) (4)
Client Name	ARGO Systems	Date Received	05/21/2010 03:40:00 PM
Project Name	NTCB	Delivered By	Dial Courier
Project Number	1462309	Tracking No	Not Applicable
Disposal Date:	06/25/2010	Logged In By	(b) (4)

Shipping Container(s)

No. of Coolers	9	Ice	Present
Custody Seals	Absent	Temp (deg C)	5
Seal Condition	Absent	Temp Blank	Present No

Documentation

COC agrees with sample labels? Yes or No Sampler Name: (b) (4)
Chain of Custody (COC) Yes or No MD DW Cert. No.: N/A

Sample Container

Appropriate for Specified Analysis?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Custody Seal(s)	Absent
Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Custody Seal(s) Intact?	Not Applicable
Labeled and Labels Legible	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Seal(s) Signed / Dated	Not Applicable
Total No. of Samples Received	79		Total No. of Containers Received	197

Preservation

Metals	(pH<2)	<input checked="" type="checkbox"/>	Yes	No	N/A
Cyanides	(pH>12)	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
Sulfide	(pH>9)	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
TOC, COD, Phenols	(pH<2)	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
TOX, TKN, NH3, Total Phos	(pH<2)	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
VOC, BTEX (VOA Vials Rcvd Preserved)	(pH<2)	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Do VOA vials have zero headspace?		<input checked="" type="checkbox"/>		<input type="checkbox"/>	

Comments: (Any "No" response must be detailed in the comments section below.)

For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling.

*Three extra containers in cooler not on COC. Labeled AOC-3-40/0-2 MS/MSD, sampled 5/12/10 @ 1410.
Per C. Mierczak, placed containers on hold until further notice -rd 5/21/10

PER VOICEMAIL LEFT BY (b) (4) ON 5/22/10, PP METALS FOR
EXTRA CONTAINERS RECEIVED IN COOLER NOT ON COC. -rd 5/24/10

Samples Inspected/Checklist Completed By: (b) (4)

Date: 5/21/10

PM Review and Approval: (b) (4)

Date: 5/24/10

Analytical Report for

ARGO Systems

Certificate of Analysis No.: 10051907

Project Manager: (b) (4)

Project Name : NTCB

Project Location: Port Deposit

Project ID : 1462309



May 28, 2010

Phase Separation Science, Inc.
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Baltimore, MD 21228
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PHASE SEPARATION SCIENCE, INC.



May 28, 2010

(b) (4)

ARGO Systems

1403 Madison Park Dr., Ste. 205
Glen Burnie, MD 21061

Reference: PSS Work Order No: **10051907**

Project Name : NTCB

Project Location: Port Deposit

Project ID.: 1462309

Dear (b) (4) :

The attached Analytical and QC Summary lists the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Work Order numbered **10051907**.

All work reported herein has been performed in accordance with referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on June 23, 2010. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt , the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 10 years, after which time it will be disposed without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or info@phaseonline.com.

(b) (4)

Laboratory Manager



Case Narrative Summary
Client Name: ARGO Systems
Project Name: NTCB

Project ID: 1462309

Work Order Number: 10051907

The following samples were received under chain of custody by Phase Separation Science (PSS) on 05/19/2010 at 12:40 pm

Lab Sample Id	Sample Id	Matrix	Date/Time Collected
10051907-001	AOC-35-29	SOIL	05/18/2010 08:25
10051907-002	AOC-35-28	SOIL	05/18/2010 08:10
10051907-003	AOC-35-30	SOIL	05/18/2010 08:40
10051907-004	AOC-35-34	SOIL	05/18/2010 09:20
10051907-005	AOC-35-35	SOIL	05/18/2010 09:05
10051907-006	AOC-35-33	SOIL	05/18/2010 09:40
10051907-007	AOC-35-32	SOIL	05/18/2010 09:55
10051907-008	1A(689)-1	SOIL	05/18/2010 13:45
10051907-009	AOC-35-31	SOIL	05/18/2010 10:10
10051907-010	AOC-45a-28	SOIL	05/18/2010 11:05
10051907-011	AOC-45a-54	SOIL	05/18/2010 10:50
10051907-012	AOC-45a-69	SOIL	05/18/2010 11:35
10051907-013	AOC-45a-76	SOIL	05/18/2010 11:20
10051907-014	DUP-AOC-35-03	SOIL	05/18/2010 00:00
10051907-015	DUP-AOC-45a-02	SOIL	05/18/2010 00:00
10051907-016	AOC-14-3-0-2	SOIL	05/18/2010 09:05
10051907-017	AOC-14-3-2-4	SOIL	05/18/2010 09:30
10051907-018	AOC-14-4-0-2	SOIL	05/18/2010 09:50
10051907-019	AOC-14-4-2-4 MS/MSD	SOIL	05/18/2010 10:00
10051907-020	AOC-14-5-0-2	SOIL	05/18/2010 10:20
10051907-021	AOC-14-5-2-4	SOIL	05/18/2010 10:40
10051907-022	DUP-AOC-14-01	SOIL	05/18/2010 00:00
10051907-023	DUP-AOC-14-02	SOIL	05/18/2010 00:00
10051907-024	AOC-28-27 MS/MSD	SOIL	05/18/2010 14:10
10051907-025	AOC-28-19	SOIL	05/18/2010 14:50
10051907-026	AOC-28-20	SOIL	05/18/2010 14:30
10051907-027	AOC-28-28	SOIL	05/18/2010 14:00
10051907-028	AOC-28-34	SOIL	05/18/2010 13:40
10051907-029	AOC-28-33	SOIL	05/18/2010 13:15
10051907-030	AOC-28-28	SOIL	05/18/2010 13:50
10051907-031	AOC-28-35	SOIL	05/18/2010 13:25
10051907-032	DUP-AOC-28-01	SOIL	05/18/2010 00:00
10051907-033	DUP-AOC-2a-04/2-4	SOIL	05/10/2010 00:00
10051907-034	DUP-AOC-2a-05/2-4	SOIL	05/12/2010 00:00
10051907-035	DUP-AOC-2a-06/0-1	SOIL	05/10/2010 00:00
10051907-036	DUP-AOC-3-06/2-4	SOIL	05/12/2010 00:00
10051907-037	DUP-AOC-3-07/2-4	SOIL	05/13/2010 00:00
10051907-038	DUP-AOC-3-08/8-10	SOIL	05/13/2010 00:00
10051907-039	DUP-AOC-3-09/2-4	SOIL	05/12/2010 00:00
10051907-040	AOC-2a-33/2-4 MS/MSD	SOIL	05/11/2010 09:00
10051907-041	AOC-3-34/2-4 MS/MSD	SOIL	05/12/2010 14:50



Case Narrative Summary

Client Name: ARGO Systems
Project Name: NTCB

Project ID: 1462309

Work Order Number: 10051907

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in the Sample Receipt Checklist.

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

Narrative Comments:

Terphenyl-d14 fell below 50% in the sample:
041SD.

Notes:

1. The presence of common laboratory contaminants such as acetone, methylene chloride and phthalates, may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
2. The following analytical results are never reported on a dry weight basis: pH, flashpoint, moisture and paint filter test.
3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].

Standard Flags/Abbreviations:

- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- C Results Pending Final Confirmation.
- D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- Fail The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
- J The target analyte was positively identified below the reporting limit but greater than one-half of the reporting limit.
- ND Not Detected at or above the reporting limit.
- RL PSS Reporting Limit.
- U Not detected.

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10051907

ARGO Systems, Glen Burnie, MD

May 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-27 MS/MSD	Date/Time Sampled: 05/18/2010 14:10	PSS Sample ID: 10051907-024
Matrix: SOIL	Date/Time Received: 05/19/2010 12:40	% Solids: 78

VCP Metals: Mercury	Analytical Method: SW846 6020A					Preparation Method: SW846 3050B			
Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst	

Mercury	0.05	mg/kg	0.11	J	1	0.05	05/20/10	05/21/10 21:22	1033
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Polychlorinated Biphenyls	Analytical Method: SW846 8082A					Preparation Method: SW846 3550 Clean up Method: SW846 3665A			
Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst	

PCB-1016	ND	mg/kg	0.1	1	0.1	05/22/10	05/24/10 12:35	1029
PCB-1221	ND	mg/kg	0.1	1	0.1	05/22/10	05/24/10 12:35	1029
PCB-1232	ND	mg/kg	0.1	1	0.1	05/22/10	05/24/10 12:35	1029
PCB-1242	ND	mg/kg	0.1	1	0.1	05/22/10	05/24/10 12:35	1029
PCB-1248	ND	mg/kg	0.1	1	0.1	05/22/10	05/24/10 12:35	1029
PCB-1254	ND	mg/kg	0.1	1	0.1	05/22/10	05/24/10 12:35	1029
PCB-1260	ND	mg/kg	0.1	1	0.1	05/22/10	05/24/10 12:35	1029

Sample ID: AOC-28-19	Date/Time Sampled: 05/18/2010 14:50	PSS Sample ID: 10051907-025
Matrix: SOIL	Date/Time Received: 05/19/2010 12:40	% Solids: 85

VCP Metals: Mercury	Analytical Method: SW846 6020A					Preparation Method: SW846 3050B			
Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst	

Mercury	0.35	mg/kg	0.11	1	0.06	05/20/10	05/21/10 22:36	1033
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Polychlorinated Biphenyls	Analytical Method: SW846 8082A					Preparation Method: SW846 3550 Clean up Method: SW846 3665A			
Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst	

PCB-1016	ND	mg/kg	0.1	1	0.1	05/22/10	05/24/10 13:04	1029
PCB-1221	ND	mg/kg	0.1	1	0.1	05/22/10	05/24/10 13:04	1029
PCB-1232	ND	mg/kg	0.1	1	0.1	05/22/10	05/24/10 13:04	1029
PCB-1242	ND	mg/kg	0.1	1	0.1	05/22/10	05/24/10 13:04	1029
PCB-1248	ND	mg/kg	0.1	1	0.1	05/22/10	05/24/10 13:04	1029
PCB-1254	ND	mg/kg	0.1	1	0.1	05/22/10	05/24/10 13:04	1029
PCB-1260	ND	mg/kg	0.1	1	0.1	05/22/10	05/24/10 13:04	1029

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10051907

ARGO Systems, Glen Burnie, MD

May 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-20	Date/Time Sampled: 05/18/2010 14:30		PSS Sample ID: 10051907-026	
Matrix: SOIL	Date/Time Received: 05/19/2010 12:40			% Solids: 85

VCP Metals: Mercury	Analytical Method: SW846 6020A	Preparation Method: SW846 3050B
---------------------	--------------------------------	---------------------------------

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Mercury	0.06	mg/kg	0.11	J	1	0.05	05/20/10	05/21/10 22:43	1033

Polychlorinated Biphenyls	Analytical Method: SW846 8082A	Preparation Method: SW846 3550
		Clean up Method: SW846 3665A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	mg/kg	0.1		1	0.1	05/22/10	05/24/10 13:33	1029
PCB-1221	ND	mg/kg	0.1		1	0.1	05/22/10	05/24/10 13:33	1029
PCB-1232	ND	mg/kg	0.1		1	0.1	05/22/10	05/24/10 13:33	1029
PCB-1242	ND	mg/kg	0.1		1	0.1	05/22/10	05/24/10 13:33	1029
PCB-1248	ND	mg/kg	0.1		1	0.1	05/22/10	05/24/10 13:33	1029
PCB-1254	ND	mg/kg	0.1		1	0.1	05/22/10	05/24/10 13:33	1029
PCB-1260	ND	mg/kg	0.1		1	0.1	05/22/10	05/24/10 13:33	1029

Sample ID: AOC-28-28	Date/Time Sampled: 05/18/2010 14:00		PSS Sample ID: 10051907-027	
Matrix: SOIL	Date/Time Received: 05/19/2010 12:40			% Solids: 81

VCP Metals: Mercury	Analytical Method: SW846 6020A	Preparation Method: SW846 3050B
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	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Mercury	0.15	mg/kg	0.10		1	0.05	05/20/10	05/21/10 22:49	1033

Polychlorinated Biphenyls	Analytical Method: SW846 8082A	Preparation Method: SW846 3550
		Clean up Method: SW846 3665A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	mg/kg	0.1		1	0.1	05/22/10	05/24/10 14:02	1029
PCB-1221	ND	mg/kg	0.1		1	0.1	05/22/10	05/24/10 14:02	1029
PCB-1232	ND	mg/kg	0.1		1	0.1	05/22/10	05/24/10 14:02	1029
PCB-1242	ND	mg/kg	0.1		1	0.1	05/22/10	05/24/10 14:02	1029
PCB-1248	ND	mg/kg	0.1		1	0.1	05/22/10	05/24/10 14:02	1029
PCB-1254	ND	mg/kg	0.1		1	0.1	05/22/10	05/24/10 14:02	1029
PCB-1260	ND	mg/kg	0.1		1	0.1	05/22/10	05/24/10 14:02	1029

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800-932-9047
FAX 410-788-8723

PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10051907

ARGO Systems, Glen Burnie, MD

May 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-34	Date/Time Sampled: 05/18/2010 13:40						PSS Sample ID: 10051907-028		
Matrix: SOIL	Date/Time Received: 05/19/2010 12:40						% Solids: 74		

VCP Metals: Mercury	Analytical Method: SW846 6020A						Preparation Method: SW846 3050B		
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	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Mercury	0.07	mg/kg	0.10	J	1	0.05	05/20/10	05/21/10 22:56	1033

Polychlorinated Biphenyls	Analytical Method: SW846 8082A						Preparation Method: SW846 3550 Clean up Method: SW846 3665A		
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	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	mg/kg	0.1		1	0.1	05/22/10	05/24/10 14:31	1029
PCB-1221	ND	mg/kg	0.1		1	0.1	05/22/10	05/24/10 14:31	1029
PCB-1232	ND	mg/kg	0.1		1	0.1	05/22/10	05/24/10 14:31	1029
PCB-1242	ND	mg/kg	0.1		1	0.1	05/22/10	05/24/10 14:31	1029
PCB-1248	ND	mg/kg	0.1		1	0.1	05/22/10	05/24/10 14:31	1029
PCB-1254	ND	mg/kg	0.1		1	0.1	05/22/10	05/24/10 14:31	1029
PCB-1260	ND	mg/kg	0.1		1	0.1	05/22/10	05/24/10 14:31	1029

Sample ID: AOC-28-33	Date/Time Sampled: 05/18/2010 13:15						PSS Sample ID: 10051907-029		
Matrix: SOIL	Date/Time Received: 05/19/2010 12:40						% Solids: 81		

VCP Metals: Mercury	Analytical Method: SW846 6020A						Preparation Method: SW846 3050B		
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	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Mercury	0.05	mg/kg	0.10	J	1	0.05	05/20/10	05/21/10 23:02	1033

Polychlorinated Biphenyls	Analytical Method: SW846 8082A						Preparation Method: SW846 3550 Clean up Method: SW846 3665A		
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	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	mg/kg	0.1		1	0.1	05/22/10	05/24/10 15:30	1029
PCB-1221	ND	mg/kg	0.1		1	0.1	05/22/10	05/24/10 15:30	1029
PCB-1232	ND	mg/kg	0.1		1	0.1	05/22/10	05/24/10 15:30	1029
PCB-1242	ND	mg/kg	0.1		1	0.1	05/22/10	05/24/10 15:30	1029
PCB-1248	ND	mg/kg	0.1		1	0.1	05/22/10	05/24/10 15:30	1029
PCB-1254	ND	mg/kg	0.1		1	0.1	05/22/10	05/24/10 15:30	1029
PCB-1260	ND	mg/kg	0.1		1	0.1	05/22/10	05/24/10 15:30	1029

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10051907

ARGO Systems, Glen Burnie, MD

May 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-28	Date/Time Sampled: 05/18/2010 13:50						PSS Sample ID: 10051907-030		
Matrix: SOIL	Date/Time Received: 05/19/2010 12:40						% Solids: 75		

VCP Metals: Mercury	Analytical Method: SW846 6020A						Preparation Method: SW846 3050B		
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	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Mercury	0.07	mg/kg	0.10	J	1	0.05	05/20/10	05/24/10 17:29	1033

Polychlorinated Biphenyls	Analytical Method: SW846 8082A						Preparation Method: SW846 3550 Clean up Method: SW846 3665A		
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	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	mg/kg	0.1		1	0.1	05/22/10	05/24/10 15:59	1029
PCB-1221	ND	mg/kg	0.1		1	0.1	05/22/10	05/24/10 15:59	1029
PCB-1232	ND	mg/kg	0.1		1	0.1	05/22/10	05/24/10 15:59	1029
PCB-1242	ND	mg/kg	0.1		1	0.1	05/22/10	05/24/10 15:59	1029
PCB-1248	ND	mg/kg	0.1		1	0.1	05/22/10	05/24/10 15:59	1029
PCB-1254	ND	mg/kg	0.1		1	0.1	05/22/10	05/24/10 15:59	1029
PCB-1260	ND	mg/kg	0.1		1	0.1	05/22/10	05/24/10 15:59	1029

Sample ID: AOC-28-35	Date/Time Sampled: 05/18/2010 13:25						PSS Sample ID: 10051907-031		
Matrix: SOIL	Date/Time Received: 05/19/2010 12:40						% Solids: 78		

VCP Metals: Mercury	Analytical Method: SW846 6020A						Preparation Method: SW846 3050B		
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	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Mercury	0.06	mg/kg	0.10	J	1	0.05	05/20/10	05/24/10 17:35	1033

Polychlorinated Biphenyls	Analytical Method: SW846 8082A						Preparation Method: SW846 3550 Clean up Method: SW846 3665A		
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	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	mg/kg	0.1		1	0.1	05/22/10	05/24/10 16:27	1029
PCB-1221	ND	mg/kg	0.1		1	0.1	05/22/10	05/24/10 16:27	1029
PCB-1232	ND	mg/kg	0.1		1	0.1	05/22/10	05/24/10 16:27	1029
PCB-1242	ND	mg/kg	0.1		1	0.1	05/22/10	05/24/10 16:27	1029
PCB-1248	ND	mg/kg	0.1		1	0.1	05/22/10	05/24/10 16:27	1029
PCB-1254	ND	mg/kg	0.1		1	0.1	05/22/10	05/24/10 16:27	1029
PCB-1260	ND	mg/kg	0.1		1	0.1	05/22/10	05/24/10 16:27	1029

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10051907

ARGO Systems, Glen Burnie, MD

May 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: DUP-AOC-28-01	Date/Time Sampled: 05/18/2010 00:00			PSS Sample ID: 10051907-032					
Matrix: SOIL	Date/Time Received: 05/19/2010 12:40			% Solids: 76					
VCP Metals: Mercury	Analytical Method: SW846 6020A			Preparation Method: SW846 3050B					
Mercury	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Mercury	0.08	mg/kg	0.12	J	1	0.06	05/20/10	05/24/10 17:42	1033
Polychlorinated Biphenyls	Analytical Method: SW846 8082A			Preparation Method: SW846 3550 Clean up Method: SW846 3665A					
PCB-1016	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	mg/kg	0.1		1	0.1	05/22/10	05/24/10 16:56	1029
PCB-1221	ND	mg/kg	0.1		1	0.1	05/22/10	05/24/10 16:56	1029
PCB-1232	ND	mg/kg	0.1		1	0.1	05/22/10	05/24/10 16:56	1029
PCB-1242	ND	mg/kg	0.1		1	0.1	05/22/10	05/24/10 16:56	1029
PCB-1248	ND	mg/kg	0.1		1	0.1	05/22/10	05/24/10 16:56	1029
PCB-1254	ND	mg/kg	0.1		1	0.1	05/22/10	05/24/10 16:56	1029
PCB-1260	ND	mg/kg	0.1		1	0.1	05/22/10	05/24/10 16:56	1029



SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

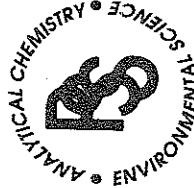
PHASE SEPARATION SCIENCE, INC.

www.phaseonline.com
email: info@phaseonline.com

1	CLIENT: EPD	OFFICE LOC. Sparks, MD	PSS Work Order #:	1005/407	PAGE	1	OF	45
Matrix Codes: SW=Surface Wtr DW=Drinking Wtr GW=Ground Wtr WM=Waste Wtr O-Oil S=Soil M=Solid W=Waste Solid								
PROJECT MGR:	(4) [REDACTED]	PHONE NO.: (410) 329-5114	No.	C	SAMPLE TYPE	Preservatives Used		
EMAIL:	(4) [REDACTED]	FAX NO.: (410) 771-5204	O	N	Required	-	-	-
PROJECT NAME:	DTCD	PROJECT NO.: J402307	A	T	C = COMP	Analysis/Method		
SITE LOCATION:	Perf + Depo +	P.O. NO.: (4) [REDACTED]	I	N	G = GRAB	(3)		
SAMPLERS:	[REDACTED]		R	S				
2	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX (See Codes)		REMARKS		
1	AOC-35-29 *	5/18/10	0825	5	7	6	X	X
2	AOC-35-28 *		0810				X	X
3	AOC-35-30 *		0840				X	X
4	AOC-35-34 *		0920				X	X
5	AOC-35-35 *		0905				X	X
6	AOC-35-33 *		0940				X	X
7	AOC-35-32 *		0955				X	X
8	1A(489)-1		1345				X	X
9	AOC-35-31 *		1010				X	X
10	AOC-45a-28		1105				X	X
5	Date Relinquished By: (4) [REDACTED]	Time Relinquished By: (4) [REDACTED]	Received By: (4) [REDACTED]	Time Received By: (4) [REDACTED]	Received By: (4) [REDACTED]	Time Received By: (4) [REDACTED]	Received By: (4) [REDACTED]	Time Received By: (4) [REDACTED]
4	Requested Turnaround Time			# of Coolers: 5				
<input type="checkbox"/> 5-Day <input type="checkbox"/> 3-Day <input checked="" type="checkbox"/> 2-Day <input type="checkbox"/> Next Day <input type="checkbox"/> Emergency <input type="checkbox"/> Other			Custody Seal: Abs					
Data Deliverables Required:								
Special Instructions:								
Relinquished By: (4)	Date	Time	Received By:					
Relinquished By: (4)	Date	Time	Received By:					
Relinquished By: (4)	Date	Time	Received By:					

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The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version, of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary.

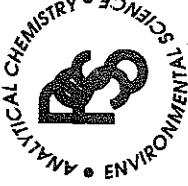


SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

PHASE SEPARATION SCIENCE, INC.

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email: info@phaseonline.com

① CLIENT:	EPFA		OFFICE LOC.	Sparks, MD		PSS Work Order #	10051907		PAGE	2 OF 5	
PROJECT MGR:	(4)		PHONE NO.:	(410) 329-5114		Matrix Codes:					
EMAIL:	(4)		FAX NO.:	(410) 771-4704		SW=Surface Wtr DW=Drinking Wtr GW=Ground Wtr MW=Waste Wtr O=Oil S=Soil WLS=Waste Liquid WS=Waste Solid W=Wire					
PROJECT NAME:	NTC B		PROJECT NO.:	462305		No.	SAMPLE TYPE	Preservatives Used			
SITE LOCATION:	Part Deposit		P.O. NO.:	(4)		C	O	H	-		
SAMPLERS:						N	T	A			
② LAB NO.	SAMPLE IDENTIFICATION		DATE	TIME	MATRIX (See Codes)	N	E	R	S		REMARKS
1	AOC-45a-54		5/18/10	1050	5	4	4	X	X		If chance is identified above Residential Client
12	AOC-45a-69		1135		4	4	X	X		Standard Sample	
13	AOC-45a-70		1120		4	7	X	X	X	Should be given 2nd for HPLC analysis. Please inform EPA.	
14	Dup-Aoc-35-03*		-		-	1	X	X	X		
15	Dup-Aoc-45a-02		-		-	7	X	X	X		
16	Aoc-14-3-0-2*		0905		7	7	X	X	X		
17	Aoc-14-3-2-4*		0930		7	4	X	X	X		
18	Aoc-14-4-0-2*		0950		4	21	X	X	X		
19	Aoc-14-4-2-4**		1000		21	7	X	X	X		
20	AOC-14-5-0-2*		1020		7	7	X	X	X		
③	Relinquished By: (4)		Date: 5/19/10	Time: 1040	Received By: (4)	1	1	1	1	1	# of Coolers: 5
④	Relinquished By: (4)		Date: 5/19/10	Time: 1140	Received By: (4)	2	2	2	2	2	2-Day Next Day Emergency Other
⑤	Relinquished By: (4)		Date: 5/19/10	Time: 1240	Received By: (4)	3	3	3	3	3	3-Day Emergency Other
Data Deliverables Required:											
Special Instructions:											
Relinquished By: (4)		Date	Time	Received By:							
Relinquished By: (4)		Date	Time	Received By:							

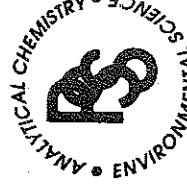


SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

PHASE SEPARATION SCIENCE, INC.

www.phaseonline.com
email: info@phaseonline.com

① CLIENT:	EPA		OFFICE LOC:	Sparks MD		PSS Work Order #:	10061907		PAGE <u>3</u> OF <u>5</u>					
PROJECT MGR:	(4)(5)		PHONE NO.:	(410) 329-5114		Matrix Codes:								
EMAIL:	(4)(5)@east.com		FAX NO.:	(410) 771-4204		No. C	DW=Drinking Wtr	GW=Ground Wtr	WW=Waste Wtr	Oil S=Oil	Soil M=Liquid	WS=Waste Solid	W=Wipe	
PROJECT NAME:	NTC B		PROJECT NO.:	1462305		O	SAMPLE TYPE	Preservatives Used	Analysis Method Required					
SITE LOCATION:	Port Deposit		P.O. NO.:	(b) (4)		N	C = COMP	(3)						
SAMPLERS:			LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	(See Codes)	E	G = GRAB					
21	AOC-14-5-2-4*			5/18/10	1040	S	7	G	X	X	X	X	X	
22	Dup - 14-01			-	-		5	X	X	X	X	X		
23	Dup-Me-14-02*			-	-		2							
24	AOC-28-27 MJD				1410		3							
25	AOC-28-19				1450		1							
26	AOC-28-20				1430									
27	AOC-28-28				1400									
28	AOC-28-34				1340									
29	AOC-28-33				135									
30	AOC-28-29				1350	V	1							
⑤ Relinquished By:	(4)(5)		Date:	5/19/10	Time:	1040	Received By:	(4)(5)		Requested Turnaround Time			# of Coolers: <u>5</u>	
Relinquished By:	(4)(5)		Date:	5/19/10	Time:	1140	Received By:	(b) (4)		<input type="checkbox"/> 5-Day	<input type="checkbox"/> 3-Day	<input type="checkbox"/> Next Day	<input type="checkbox"/> Emergency	<input type="checkbox"/> Other
Relinquished By:	(4)(5)		Date:		Time:		Received By:			Data Deliverables Required:				
Relinquished By:	(4)(5)		Date:		Time:		Received By:			Special Instructions:				
Relinquished By:	(4)(5)		Date:		Time:		Received By:							



SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

PHASE SEPARATION SCIENCE, INC.

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① CLIENT:	EPA [REDACTED]		OFFICE LOC.	Sparks, MD		PSS Work Order #:	10051907		PAGE	4	OF	5			
PROJECT MGR:	(4) [REDACTED]		PHONE NO.:	(410) 329-5111		Matrix Codes:									
EMAIL:	(4) [REDACTED]@Phaseonline.com		FAX NO.:	(410) 771-4704		SW=Surface Wtr	WT=Drinking Wtr	GW=Ground Wtr	WW=Waste Wtr	O=Oil	S=Soil	WL=Waste Solid	WS=Waste Liquid		
PROJECT NAME:	H-7C-B		PROJECT NO.:	1402306		[REDACTED]									
SITE LOCATION:	Port Deposit, MD		P.O. NO.:	[REDACTED]		[REDACTED]									
SAMPLERS:	[REDACTED]		(b) (4)	MATRIX	[REDACTED]	[REDACTED]									
② LAB NO.	SAMPLE IDENTIFICATION		DATE	TIME	[REDACTED]	No.	C	SAMPLE TYPE	Preservatives Used	Analysis/Method Required	REMARKS				
31	HOC-28-35		5/8/10	1325	S	1	C	COMP	③	83	[REDACTED]				
32	Dup-HOC-28-01		5/8/10	-		1	C	GRAB	2	83	[REDACTED]				
33	Dup-HOC-20-04		5/10/10	-		1	C	GRAB	3	83	[REDACTED]				
34	Dup-HOC-24-05		5/12/10	-		1	C	GRAB	4	83	[REDACTED]				
35	Dup-HOC-24-06		5/10/10	-		1	C	GRAB	5	83	[REDACTED]				
36	Dup-HOC-3-07-24		5/12/10	-		1	C	GRAB	6	83	[REDACTED]				
37	Dup-HOC-3-07-24		5/13/10	-		1	C	GRAB	7	83	[REDACTED]				
38	Dup-HOC-3-08-24		5/13/10	-		1	C	GRAB	8	83	[REDACTED]				
39	Dup-HOC-3-09-24		5/12/10	-		1	C	GRAB	9	83	[REDACTED]				
40	Dup-HOC-33-12-24		5/15/10	0900		2	C	GRAB	10	83	[REDACTED]				
④ Relinquished By: (3)	[REDACTED]		Date: 5/19/10	Time: 1040	Received By: [REDACTED]	[REDACTED]		5	5-Day	3-Day	2-Day	Emergency	Other		
Relinquished By: (4)	[REDACTED]		Date: 5/19/10	Time: 1200	Received By: [REDACTED]	[REDACTED]		10	5-Day	Next Day	2-Day	Emergency	Other		
Relinquished By: (3)	[REDACTED]		Date: [REDACTED]	Time: [REDACTED]	Received By: [REDACTED]	[REDACTED]		15	5-Day	3-Day	2-Day	Emergency	Other		
Relinquished By: (4)	[REDACTED]		Date: [REDACTED]	Time: [REDACTED]	Received By: [REDACTED]	[REDACTED]		20	5-Day	Next Day	2-Day	Emergency	Other		
⑤ Relinquished By: (3)	[REDACTED]		Date: [REDACTED]	Time: [REDACTED]	Received By: [REDACTED]	[REDACTED]		25	5-Day	3-Day	2-Day	Emergency	Other		
Relinquished By: (4)	[REDACTED]		Date: [REDACTED]	Time: [REDACTED]	Received By: [REDACTED]	[REDACTED]		30	5-Day	Next Day	2-Day	Emergency	Other		
④ Requested Turnaround Time															
<input type="checkbox"/> 5-Day <input type="checkbox"/> 3-Day <input type="checkbox"/> 2-Day <input type="checkbox"/> Next Day <input type="checkbox"/> Emergency <input type="checkbox"/> Other															
Data Deliverables Required:															
<input type="checkbox"/> (b) (4)															
Special Instructions:															
* HOC-24-33-12-24 is MSD ONLY * DO NOT FORGOT FOR sample previously run															

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 The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary.



SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

PHASE SEPARATION SCIENCE, INC.

www.phaseonline.com
email: info@phaseonline.com

① CLIENT:	EPIT	OFFICE LOC.	Spark Mts, MD	PSS Work Order #	10061907	PAGE <u>2</u> OF <u>5</u>
PROJECT MGR:	(4)	PHONE NO.:	(410) 374-5114	Matrix Codes:	SW-Surface Wtr, DW=Drinking Wtr, GW=Ground Wtr, W=Oil, S=Soil, WL=Waste Liquid, MS=Waste Solid, W= Wipe	
EMAIL:	(4)	FAX NO.:	(410) 771-4704	No. C	Preservatives Used	
PROJECT NAME:	ATC B	PROJECT NO.:	1467319	O	Sample Analysis Method Required	
SITE LOCATION:	Port Deposit	P.O. NO.:		N	C = COMP	③
SAMPLERS:				A	G = GRAB	
② LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX (See Codes)	REMARKS	
414	AC-3412-415150	5/10/15	1450		X X	
④ Relinquished By:	(4)	Date	Time	Received By:	(4)	# of Coolers: <u>5</u>
Relinquished By:	(4)	5/10/15	1450	Received By:	(4)	5-Day <input type="checkbox"/> 3-Day <input type="checkbox"/> Next Day <input type="checkbox"/> Emergency <input checked="" type="checkbox"/> Other
Relinquished By:	(4)	5/10/15	1450	Received By:	(4)	2-Day <input type="checkbox"/> Custody Seal: <u>None</u>
Relinquished By:	(4)	Date	Time	Received By:		Ice Present <input type="checkbox"/> Temp <u>0°C</u> <input type="checkbox"/> Shipping Carrier: <u>DHL</u>
Relinquished By:	(4)	Date	Time	Received By:		Special Instructions: <u>* Doc - 3-3412-4 is MS/MSD ONLY for sample previously run</u>

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Phase Separation Science, Inc

Sample Receipt Checklist

Wo Number	10051907	Received By	(b) (4)
Client Name	ARGO Systems	Date Received	05/19/2010 12:40:00 PM
Project Name	NTCB	Delivered By	Dial Courier
Project Number	1462309	Tracking No	Not Applicable
Disposal Date:	06/23/2010	Logged In By	(b) (4)

Shipping Container(s)

No. of Coolers	5	Ice	Present
Custody Seals	Absent	Temp (deg C)	0
Seal Condition	Absent	Temp Blank Present	No

Documentation

COC agrees with sample labels? Yes or No Sampler Name: (b) (4)
Chain of Custody (COC) Yes or No MD DW Cert. No: N/A

Sample Container

Appropriate for Specified Analysis?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Custody Seal(s)	Absent
Intact?	<input checked="" type="checkbox"/>	Custody Seal(s) Intact?	Not Applicable
Labeled and Labels Legible	<input checked="" type="checkbox"/>	Seal(s) Signed / Dated	Not Applicable
Total No. of Samples Received	41	Total No. of Containers Received	(191)

Preservation

	(pH<2)	Yes	No	N/A
Metals	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Cyanides	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Sulfide	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
TOC, COD, Phenols	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
TOX, TKN, NH3, Total Phos	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VOC, BTEX (VOA Vials Rcvd Preserved)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Do VOA vials have zero headspace?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Comments: (Any "No" response must be detailed in the comments section below.)

For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling

(b) (4)

Samples Inspected/Checklist Completed By: (b) (4)

Date:

5/19/10

PM Review and Approval: (b) (4)

Date:

5/21/10

Analytical Report for

ARGO Systems

Certificate of Analysis No.: 10052015

Project Manager: (b) (4)

Project Name : NTCB

Project Location: Port Deposit

Project ID : 1462309



June 3, 2010

Phase Separation Science, Inc.
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PHASE SEPARATION SCIENCE, INC.



June 3, 2010

(b) (4)

ARGO Systems

1403 Madison Park Dr., Ste. 205
Glen Burnie, MD 21061

Reference: PSS Work Order No: **10052015**

Project Name : NTCB

Project Location: Port Deposit

Project ID.: 1462309

Dear (b) (4) :

The attached Analytical and QC Summary lists the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Work Order numbered **10052015**.

All work reported herein has been performed in accordance with referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on June 24, 2010. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt , the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 10 years, after which time it will be disposed without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or info@phaseonline.com.

(b) (4)

Laboratory Manager



Case Narrative Summary
Client Name: ARGO Systems
Project Name: NTCB

Project ID: 1462309

Work Order Number: 10052015

The following samples were received under chain of custody by Phase Separation Science (PSS) on 05/20/2010 at 02:00 pm

Lab Sample Id	Sample Id	Matrix	Date/Time Collected
10052015-001	AOC-2A-34/0-2 MS/MSD	SOIL	05/19/2010 08:00
10052015-002	AOC-2A-34/2-4 MS/MSD	SOIL	05/19/2010 00:00
10052015-003	AOC-28-UST-01	SOIL	05/19/2010 09:00
10052015-004	AOC-28-UST-02	SOIL	05/19/2010 09:10
10052015-005	AOC-7-2	SOIL	05/19/2010 10:15
10052015-006	AOC-7-5	SOIL	05/19/2010 10:40
10052015-007	AOC-7-9	SOIL	05/19/2010 11:00
10052015-008	AOC-7-7	SOIL	05/19/2010 11:15
10052015-009	AOC-7-4	SOIL	05/19/2010 11:30
10052015-010	AOC-7-8	SOIL	05/19/2010 11:50
10052015-011	DUP-AOC-7-01	SOIL	05/19/2010 00:00
10052015-012	DUP-AOC-7-02	SOIL	05/19/2010 00:00
10052015-013	AOC-7-11 MSMSD	SOIL	05/19/2010 14:10
10052015-014	AOC-7-10	SOIL	05/19/2010 14:20
10052015-015	AOC-7-6 MSMSD	SOIL	05/19/2010 14:35
10052015-016	AOC-7-3	SOIL	05/19/2010 14:45
10052015-017	DUP-AOC-7-03	SOIL	05/19/2010 00:00
10052015-018	AOC-7-1	SOIL	05/19/2010 10:00
10052015-019	AOC-35-1	SOIL	05/14/2010 10:00
10052015-020	AOC-35-2	SOIL	05/14/2010 09:45
10052015-021	AOC-35-3	SOIL	05/14/2010 09:25
10052015-022	AOC-35-4	SOIL	05/14/2010 09:00
10052015-023	AOC-35-5	SOIL	05/14/2010 08:45
10052015-024	AOC-35-6	SOIL	05/14/2010 10:30
10052015-025	AOC-35-7	SOIL	05/14/2010 10:50
10052015-026	AOC-35-8	SOIL	05/14/2010 11:05
10052015-027	AOC-35-9	SOIL	05/14/2010 11:30
10052015-028	AOC-35-10	SOIL	05/14/2010 13:05
10052015-029	AOC-35-11	SOIL	05/17/2010 09:20
10052015-030	AOC-35-12	SOIL	05/17/2010 09:00
10052015-031	AOC-35-13 MS/MSD	SOIL	05/14/2010 14:10
10052015-032	AOC-35-14	SOIL	05/14/2010 13:50
10052015-033	AOC-35-15	SOIL	05/17/2010 13:20
10052015-034	AOC-35-16	SOIL	05/17/2010 09:40
10052015-035	AOC-35-17	SOIL	05/17/2010 10:05
10052015-036	AOC-35-18	SOIL	05/17/2010 10:30
10052015-037	AOC-35-19	SOIL	05/17/2010 10:50
10052015-038	AOC-35-20	SOIL	05/17/2010 11:15
10052015-039	AOC-35-21	SOIL	05/17/2010 14:35
10052015-040	AOC-35-22	SOIL	05/17/2010 14:15
10052015-041	AOC-35-23	SOIL	05/17/2010 14:00
10052015-042	AOC-35-24	SOIL	05/17/2010 00:00
10052015-043	AOC-35-25	SOIL	05/17/2010 13:15



Case Narrative Summary

Client Name: ARGO Systems

Project Name: NTCB

Project ID: 1462309

Work Order Number: 10052015

10052015-044	AOC-35-26	SOIL	05/17/2010 15:00
10052015-045	AOC-35-27	SOIL	05/17/2010 15:15
10052015-046	DUP-AOC-35-05	SOIL	05/14/2010 00:00
10052015-047	DUP-AOC-35-06	SOIL	05/14/2010 00:00

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in the Sample Receipt Checklist.

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

Narrative Comments:

Total Metals:

Intermediate and Closing CCV's have a Be recovery of 88%, 86% respectively, limits 90-110%. Samples affected are 043-047

Notes:

1. The presence of common laboratory contaminants such as acetone, methylene chloride and phthalates, may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
2. The following analytical results are never reported on a dry weight basis: pH, flashpoint, moisture and paint filter test.
3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].

Standard Flags/Abbreviations:

- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- C Results Pending Final Confirmation.
- D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- Fail The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
- J The target analyte was positively identified below the reporting limit but greater than one-half of the reporting limit.
- ND Not Detected at or above the reporting limit.
- RL PSS Reporting Limit.
- U Not detected.

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10052015

ARGO Systems, Glen Burnie, MD

June 3, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-UST-01	Date/Time Sampled: 05/19/2010 09:00		PSS Sample ID: 10052015-003						
Matrix: SOIL	Date/Time Received: 05/20/2010 14:00						% Solids: 96		
Total Petroleum Hydrocarbons - DRO	Analytical Method: SW846 8015C				Preparation Method: SW846 3550				
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	ND	mg/kg	10		1	5.2	05/25/10	05/25/10 15:53	1040
Total Petroleum Hydrocarbons-GRO	Analytical Method: SW846 8015C				Preparation Method: SW846 5035A				
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/kg	130		1	64	05/21/10	05/21/10 15:17	1035

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CERTIFICATE OF ANALYSIS

No: 10052015

ARGO Systems, Glen Burnie, MD

June 3, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-UST-01	Date/Time Sampled: 05/19/2010 09:00			PSS Sample ID: 10052015-003					
Matrix: SOIL	Date/Time Received: 05/20/2010 14:00					% Solids: 96			
VCP Volatile Organic Compounds	Analytical Method: SW846 8260B					Preparation Method: SW846 5035A			
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Chloromethane	ND	ug/kg	5	1	2.6	05/21/10	05/22/10 02:52	1011	
Vinyl Chloride	ND	ug/kg	5	1	2.6	05/21/10	05/22/10 02:52	1011	
Bromomethane	ND	ug/kg	5	1	2.6	05/21/10	05/22/10 02:52	1011	
Chloroethane	ND	ug/kg	5	1	2.6	05/21/10	05/22/10 02:52	1011	
Acetone	ND	ug/kg	21	1	10	05/21/10	05/22/10 02:52	1011	
1,1-Dichloroethene	ND	ug/kg	5	1	2.6	05/21/10	05/22/10 02:52	1011	
Methylene Chloride	ND	ug/kg	5	1	2.6	05/21/10	05/22/10 02:52	1011	
trans-1,2-Dichloroethene	ND	ug/kg	5	1	2.6	05/21/10	05/22/10 02:52	1011	
Methyl-t-butyl ether	ND	ug/kg	5	1	2.6	05/21/10	05/22/10 02:52	1011	
1,1-Dichloroethane	ND	ug/kg	5	1	2.6	05/21/10	05/22/10 02:52	1011	
2-Butanone	ND	ug/kg	21	1	10	05/21/10	05/22/10 02:52	1011	
cis-1,2-Dichloroethene	ND	ug/kg	5	1	2.6	05/21/10	05/22/10 02:52	1011	
Chloroform	ND	ug/kg	5	1	2.6	05/21/10	05/22/10 02:52	1011	
1,1,1-Trichloroethane	ND	ug/kg	5	1	2.6	05/21/10	05/22/10 02:52	1011	
1,2-Dichloroethane	ND	ug/kg	5	1	2.6	05/21/10	05/22/10 02:52	1011	
Carbon Tetrachloride	ND	ug/kg	5	1	2.6	05/21/10	05/22/10 02:52	1011	
Benzene	ND	ug/kg	5	1	2.6	05/21/10	05/22/10 02:52	1011	
1,2-Dichloropropane	ND	ug/kg	5	1	2.6	05/21/10	05/22/10 02:52	1011	
Carbon Disulfide	ND	ug/kg	10	1	5.1	05/21/10	05/22/10 02:52	1011	
Trichloroethene	ND	ug/kg	5	1	2.6	05/21/10	05/22/10 02:52	1011	
Bromodichloromethane	ND	ug/kg	5	1	2.6	05/21/10	05/22/10 02:52	1011	
cis-1,3-Dichloropropene	ND	ug/kg	5	1	2.6	05/21/10	05/22/10 02:52	1011	
4-Methyl-2-Pentanone	ND	ug/kg	21	1	10	05/21/10	05/22/10 02:52	1011	
trans-1,3-Dichloropropene	ND	ug/kg	5	1	2.6	05/21/10	05/22/10 02:52	1011	
1,1,2-Trichloroethane	ND	ug/kg	5	1	2.6	05/21/10	05/22/10 02:52	1011	
Toluene	ND	ug/kg	5	1	2.6	05/21/10	05/22/10 02:52	1011	
1,2-Dibromoethane	ND	ug/kg	5	1	2.6	05/21/10	05/22/10 02:52	1011	
Dibromochloromethane	ND	ug/kg	5	1	2.6	05/21/10	05/22/10 02:52	1011	
Bromoform	ND	ug/kg	5	1	2.6	05/21/10	05/22/10 02:52	1011	
Tetrachloroethene	ND	ug/kg	5	1	2.6	05/21/10	05/22/10 02:52	1011	

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10052015

ARGO Systems, Glen Burnie, MD

June 3, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-UST-01	Date/Time Sampled: 05/19/2010 09:00			PSS Sample ID: 10052015-003					
Matrix: SOIL	Date/Time Received: 05/20/2010 14:00			% Solids: 96					
VCP Volatile Organic Compounds	Analytical Method: SW846 8260B				Preparation Method: SW846 5035A				
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Chlorobenzene	ND	ug/kg	5	1	2.6	05/21/10	05/22/10 02:52	1011	
Ethylbenzene	ND	ug/kg	5	1	2.6	05/21/10	05/22/10 02:52	1011	
m,p-Xylenes	ND	ug/kg	10	1	5.1	05/21/10	05/22/10 02:52	1011	
Styrene	ND	ug/kg	5	1	2.6	05/21/10	05/22/10 02:52	1011	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5	1	2.6	05/21/10	05/22/10 02:52	1011	
o-Xylene	ND	ug/kg	5	1	2.6	05/21/10	05/22/10 02:52	1011	
Isopropylbenzene	ND	ug/kg	5	1	2.6	05/21/10	05/22/10 02:52	1011	
n-Propylbenzene	ND	ug/kg	5	1	2.6	05/21/10	05/22/10 02:52	1011	
1,3,5-Trimethylbenzene	ND	ug/kg	5	1	2.6	05/21/10	05/22/10 02:52	1011	
1,2,4-Trimethylbenzene	ND	ug/kg	5	1	2.6	05/21/10	05/22/10 02:52	1011	
n-Butylbenzene	ND	ug/kg	5	1	2.6	05/21/10	05/22/10 02:52	1011	
1,2-Dibromo-3-Chloropropane	ND	ug/kg	41	1	21	05/21/10	05/22/10 02:52	1011	

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CERTIFICATE OF ANALYSIS

No: 10052015

ARGO Systems, Glen Burnie, MD

June 3, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-UST-02	Date/Time Sampled: 05/19/2010 09:10		PSS Sample ID: 10052015-004						
Matrix: SOIL	Date/Time Received: 05/20/2010 14:00						% Solids: 95		
Total Petroleum Hydrocarbons - DRO	Analytical Method: SW846 8015C				Preparation Method: SW846 3550				
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	ND	mg/kg	10		1	5.2	05/25/10	05/25/10 16:58	1040
Total Petroleum Hydrocarbons-GRO	Analytical Method: SW846 8015C				Preparation Method: SW846 5035A				
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/kg	110		1	57	05/21/10	05/21/10 15:48	1035

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CERTIFICATE OF ANALYSIS

No: 10052015

ARGO Systems, Glen Burnie, MD

June 3, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-UST-02	Date/Time Sampled: 05/19/2010 09:10			PSS Sample ID: 10052015-004					
Matrix: SOIL	Date/Time Received: 05/20/2010 14:00					% Solids: 95			
VCP Volatile Organic Compounds	Analytical Method: SW846 8260B					Preparation Method: SW846 5035A			
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Chloromethane	ND	ug/kg	4		1	2	05/21/10	05/22/10 03:21	1011
Vinyl Chloride	ND	ug/kg	4		1	2	05/21/10	05/22/10 03:21	1011
Bromomethane	ND	ug/kg	4		1	2	05/21/10	05/22/10 03:21	1011
Chloroethane	ND	ug/kg	4		1	2	05/21/10	05/22/10 03:21	1011
Acetone	ND	ug/kg	16		1	8.2	05/21/10	05/22/10 03:21	1011
1,1-Dichloroethene	ND	ug/kg	4		1	2	05/21/10	05/22/10 03:21	1011
Methylene Chloride	ND	ug/kg	4		1	2	05/21/10	05/22/10 03:21	1011
trans-1,2-Dichloroethene	ND	ug/kg	4		1	2	05/21/10	05/22/10 03:21	1011
Methyl-t-butyl ether	ND	ug/kg	4		1	2	05/21/10	05/22/10 03:21	1011
1,1-Dichloroethane	ND	ug/kg	4		1	2	05/21/10	05/22/10 03:21	1011
2-Butanone	ND	ug/kg	16		1	8.2	05/21/10	05/22/10 03:21	1011
cis-1,2-Dichloroethene	ND	ug/kg	4		1	2	05/21/10	05/22/10 03:21	1011
Chloroform	ND	ug/kg	4		1	2	05/21/10	05/22/10 03:21	1011
1,1,1-Trichloroethane	ND	ug/kg	4		1	2	05/21/10	05/22/10 03:21	1011
1,2-Dichloroethane	ND	ug/kg	4		1	2	05/21/10	05/22/10 03:21	1011
Carbon Tetrachloride	ND	ug/kg	4		1	2	05/21/10	05/22/10 03:21	1011
Benzene	ND	ug/kg	4		1	2	05/21/10	05/22/10 03:21	1011
1,2-Dichloropropane	ND	ug/kg	4		1	2	05/21/10	05/22/10 03:21	1011
Carbon Disulfide	ND	ug/kg	8		1	4.1	05/21/10	05/22/10 03:21	1011
Trichloroethene	ND	ug/kg	4		1	2	05/21/10	05/22/10 03:21	1011
Bromodichloromethane	ND	ug/kg	4		1	2	05/21/10	05/22/10 03:21	1011
cis-1,3-Dichloropropene	ND	ug/kg	4		1	2	05/21/10	05/22/10 03:21	1011
4-Methyl-2-Pentanone	ND	ug/kg	16		1	8.2	05/21/10	05/22/10 03:21	1011
trans-1,3-Dichloropropene	ND	ug/kg	4		1	2	05/21/10	05/22/10 03:21	1011
1,1,2-Trichloroethane	ND	ug/kg	4		1	2	05/21/10	05/22/10 03:21	1011
Toluene	ND	ug/kg	4		1	2	05/21/10	05/22/10 03:21	1011
1,2-Dibromoethane	ND	ug/kg	4		1	2	05/21/10	05/22/10 03:21	1011
Dibromochloromethane	ND	ug/kg	4		1	2	05/21/10	05/22/10 03:21	1011
Bromoform	ND	ug/kg	4		1	2	05/21/10	05/22/10 03:21	1011
Tetrachloroethene	ND	ug/kg	4		1	2	05/21/10	05/22/10 03:21	1011

OFFICES:
6630 BALTIMORE NATIONAL PIKE
ROUTE 40 WEST
BALTIMORE, MD 21228
410-747-8770
800-932-9047
FAX 410-788-8723

PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10052015

ARGO Systems, Glen Burnie, MD

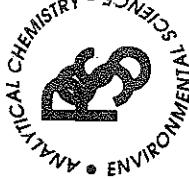
June 3, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-28-UST-02	Date/Time Sampled: 05/19/2010 09:10			PSS Sample ID: 10052015-004					
Matrix: SOIL	Date/Time Received: 05/20/2010 14:00					% Solids: 95			
VCP Volatile Organic Compounds	Analytical Method: SW846 8260B					Preparation Method: SW846 5035A			
	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Chlorobenzene	ND	ug/kg	4		1	2	05/21/10	05/22/10 03:21	1011
Ethylbenzene	ND	ug/kg	4		1	2	05/21/10	05/22/10 03:21	1011
m,p-Xylenes	ND	ug/kg	8		1	4.1	05/21/10	05/22/10 03:21	1011
Styrene	ND	ug/kg	4		1	2	05/21/10	05/22/10 03:21	1011
1,1,2,2-Tetrachloroethane	ND	ug/kg	4		1	2	05/21/10	05/22/10 03:21	1011
o-Xylene	ND	ug/kg	4		1	2	05/21/10	05/22/10 03:21	1011
Isopropylbenzene	ND	ug/kg	4		1	2	05/21/10	05/22/10 03:21	1011
n-Propylbenzene	ND	ug/kg	4		1	2	05/21/10	05/22/10 03:21	1011
1,3,5-Trimethylbenzene	ND	ug/kg	4		1	2	05/21/10	05/22/10 03:21	1011
1,2,4-Trimethylbenzene	ND	ug/kg	4		1	2	05/21/10	05/22/10 03:21	1011
n-Butylbenzene	ND	ug/kg	4		1	2	05/21/10	05/22/10 03:21	1011
1,2-Dibromo-3-Chloropropane	ND	ug/kg	33		1	16	05/21/10	05/22/10 03:21	1011



SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

PHASE SEPARATION SCIENCE, INC.

www.phaseonline.com
email: info@phaseonline.com

1 CLIENT: EPA		OFFICE LOC. Sparks, MD		PSS Work Order # 10052015		PAGE 1 OF 5	
PROJECT MGR:	(4) 3	PHONE NO.:	(410) 729-5114	Matrix Codes: SW=Surface Wtr DW=Drinking Wtr GW=Ground Wtr MN=Waste Solid MS=Waste Liquid WS=Waste Solid W=Wiper			
EMAIL:	(4) 5	CONF/COM/FAX NO.:	(410) 771-4904	No.	SAMPLE TYPE	Preservatives Used	
PROJECT NAME:	NTCB	PROJECT NO.:	J402309	C	O	Analysis Method Required	
SITE LOCATION:	POI 1 DEPO81+	P.O. NO.:		N	T	C = COMP	
SAMPLERS:	(4) 5	SAMPLE IDENTIFICATION	DATE	A	I	G = GRAB	
LAB NO.			TIME	N	R		REMARKS
			MATRIX (See Codes)	S			
1	AOC-2A-3410-2	100510	0800	5	3	G	X X
2	AOC-2A-3412-4	WSD			3		X X
3	AOC-28-VST-01		0900	4			X X X
4	AOC-28-VST-02		0910				X X X
5	AOC-7-2		1015				X X X
6	AOC-7-5		1040				X X X
7	AOC-7-9		1100				X X X
8	AOC-7-7		1115				X X X
9	AOC-7-4		1130				X X X
10	AOC-7-8		1150	V			X X X
(5) Relinquished By: (1)		Date	Time	Received By:		Requested Turnaround Time	
		5/20	11:15			<input type="checkbox"/> 5-Day	<input type="checkbox"/> 3-Day
						<input type="checkbox"/> Next Day	<input type="checkbox"/> Emergency
(5) Relinquished By: (2)		Date	Time	Received By:		Custody Seal: ABS	
		5/20	1:00			Ice Present: YES Temp: 2°C	
(5) Relinquished By: (3)		Date	Time	Received By:		Shipping Carrier: DHL	
(5) Relinquished By: (4)		Date	Time	Received By:		Special Instructions:	

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SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

PHASE SEPARATION SCIENCE, INC.

www.phaseonline.com
email: info@phaseonline.com

① CLIENT: EPA	OFFICE LOC: Sparks, MD	PSS Work Order #: 10052015	PAGE <u>2</u> OF <u>5</u>		
PROJECT MGR: (4) [REDACTED]	PHONE NO.: (410) 329-5114	Matrix Codes: SW=Surface Wtr SW=Drinking Wtr DW=Ground Wtr S=Soil Wt=Oil S=Soil WL=Waste Liquid WS=Waste Solid W=Wipe			
EMAIL: (4) [REDACTED]	CUST/COMP NO.: (410) 771-4904	No. Preservatives Used			
PROJECT NAME: NT0B	PROJECT NO.: 1407301	SAMPLE TYPE			
SITE LOCATION: Pot + Deposit	P.O. NO.: (4)	Analysis Method Required			
SAMPLERS: (4) [REDACTED]		③ C = COMP			
② LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX (See Codes)	REMARKS
11	DUP-AOC-7-01	5/19/10	-	5	(PCL Metts) TPH-LRC VOCs TPH-GRO
12	DUP-AOC-7-02	-		6	Off-Chem is identified above
13	AOC-7-11 M5MSD	1410		18	Residential Clean up
14	AOC-7-10	1420		18	Standard sample
15	AOC-7-6 M5MSD	1435		18	Should be analyzed
16	AOC-7-3	1445		6	for Hg, Chrome,
17	DUP-AOC-7-03	-		9	Mn and V. Please
18	AOC-7-1	5/14/10	1000	1	inform EPA
19	AOC-35-1 *	5/14/10	1000	1	before sending
20	AOC-35-2 *	5/14/10	0945	1	
④	Relinquished By: (1) [REDACTED]	Date: 5/20	Time: #15	Received By: (4) [REDACTED]	Requested Turnaround Time: # of Coolers: 2
					<input type="checkbox"/> 5-Day <input type="checkbox"/> Next Day
					<input type="checkbox"/> 3-Day <input type="checkbox"/> Emergency
					<input type="checkbox"/> 2-Day <input type="checkbox"/> Other
					Ice/Present: YES Temp: 2°C
					Shipping Carrier: DIAL
					Special Instructions:
⑤	Relinquished By: (2) [REDACTED]	Date: 5/20	Time: 2:00	Received By: (4) [REDACTED]	Data Deliverables Required: (4) [REDACTED]
					<input type="checkbox"/> 3-Day <input type="checkbox"/> Emergency
					<input type="checkbox"/> 2-Day <input type="checkbox"/> Other
					Ice/Present: NO Temp: 2°C
					Shipping Carrier: DIAL
					Special Instructions:
Relinquished By: (3) [REDACTED]	Date: [REDACTED]	Time: [REDACTED]	Received By: [REDACTED]		
Relinquished By: (4) [REDACTED]	Date: [REDACTED]	Time: [REDACTED]	Received By: [REDACTED]		

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SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

PHASE SEPARATION SCIENCE, INC.

www.phaseonline.com
email: info@phaseonline.com

1 CLIENT:	EPA	OFFICE LOC:	Sparks, MD	PSS Work Order #:	10052015	PAGE	3	OF	5
PROJECT MGR:	(4) [REDACTED]	PHONE NO.:	(410) 329-5141	Matrix Codes:	SW-Surface Wtr DW=Drinking Wtr GW=Ground Wtr MM=Waste Wtr O=Oil S=Soil W=Waste Solid WS=Waste Liquid WS=Wipe				
EMAIL:	(4) [REDACTED]@easyst.com	FAX NO.:	(410) 771-4204	No.	C	SAMPLE TYPE	Preservatives Used	Analysis Method Required	
PROJECT NAME:	NTCB	PROJECT NO.:	JUL2301	O	N	C = COMP	(3)	(2)	
SITE LOCATION:	Foot Deposit	P.O. NO.:	(4) [REDACTED]	A	T	G = GRAB			
SAMPLERS:				N	R	S			
2 LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX (See Codes)					REMARKS
21	* AOC-35-3	5/14/10	0925	5	1	G	X		* If Chrome is identified above
22	* AOC-35-4	0900				X	X		Residential Clean up
23	* AOC-35-5	0845				X	X		Standard Sample
24	* AOC-35-6	1030				X	X		Should be insulated
25	* AOC-35-7	1050				X	X		for the event!
26	* AOC-35-8	1105				X	X		Mac & V. Please inform before
27	* AOC-35-9	1130				X	X		running!
28	* AOC-35-10	1305				X	X		
29	* AOC-35-11	5/17/10	0920	↓		X	X		
30	* AOC-35-12	0900	↓			X	X		
3 Relinquished By: (1)	Date	Time	Received By:	(4) [REDACTED]					4
									# of Coolers: 4
4 Relinquished By: (2)	Date	Time	Received By:	(4) [REDACTED]					Custody Seal: ABS
									Ice Present: (4) [REDACTED] Temp: 2°C
5 Relinquished By: (3)	Date	Time	Received By:	(4) [REDACTED]					Shipping Carrier: DIAC
									Special Instructions:
Relinquished By: (4)	Date	Time	Received By:						

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the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary.

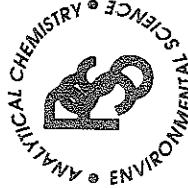


SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

PHASE SEPARATION SCIENCE, INC.

www.phaseonline.com
email: info@phaseonline.com

1 CLIENT: EPA		OFFICE LOC. Sparks, MD		PSS Work Order # 10052015		PAGE 4 OF 5									
PROJECT MGR: (4)		PHONE NO.: (410) 329-5114		Matrix Codes: SW=Surface Wtr DW=Drinking Wtr GW=Ground Wtr MM=Waste Wtr O=Oil S=Soil WLS=Waste Liquid WS=Waste Solid W=Wipe											
EMAIL: (4) Request.Cm		FAX NO.: (410) 771-4204		PROJECT NO.: NTC B											
PROJECT NAME: NTC B		SITE LOCATION: Port Deposit		P.O. NO.: (4)											
SAMPLERS:		SAMPLE IDENTIFICATION		DATE		TIME									
						(See Codes)									
2 LAB NO.		SAMPLE IDENTIFICATION		DATE		TIME		MATRIX		S		REMARKS			
31		* AOC-35-13 ms		14/10/10		5		C		3		X		* AChene is identified above	
32		* AOC-35-14		5/11/10		1350		O		6		X		Residential Clean up	
33		* AOC-35-15		5/11/10		1320		A		-		X		Standard sample should be analyzed	
34		* AOC-35-16				0940		C		-		X		for Hwy Chrm	
35		* AOC-35-17				1005		T		-		X		MacdV Please inform EA	
36		* AOC-35-18				1030		A		-		X		before running!	
37		* AOC-35-19				1050		COMP		-		X			
38		* AOC-35-20				1115		E		-		X			
39		* AOC-35-21				1435		R		-		X			
40		* AOC-35-22				1415		S		-		X			
3 Relinquished By: (1)		Date 5/20		Time 11:54		Received By: [REDACTED]		4 Requested Turnaround Time		# of Colors: 4					
								<input type="checkbox"/> 5-Day		<input type="checkbox"/> 3-Day		<input type="checkbox"/> 2-Day			
								<input type="checkbox"/> Next Day		<input type="checkbox"/> Emergency		<input checked="" type="checkbox"/> Other			
Relinquished By: (2)		Date 5/20		Time 12:00		Received By: [REDACTED]		Data Deliverables Required:		Custody Seal: ABS		Temp: 2°C			
										Ice Present: YES		Shipping Carrier: DHL			
Relinquished By: (3)		Date		Time		Received By:		Special Instructions:							
Relinquished By: (4)		Date		Time		Received By:									



SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

PHASE SEPARATION SCIENCE, INC.

www.phaseonline.com
email: info@phaseonline.com

1 CLIENT:	EPA		OFFICE LOC.	Sparks, MD	PSS Work Order #:	10052015	PAGE	5	OF	5	
PROJECT MGR:	(4) (b)		PHONE NO.:	(4) (b) 329-5114	Matrix Codes:	SW-Surface Wtr, DW=Drinking Wtr, GM=Ground Wtr, MW=Waste Wtr, 0=Oil, S=Soil, WL=Waste Liquid, WS=Waste Solid, W=Wipe					
EMAIL:	(4) (b) Deneast.com		FAX NO.:	(4) (b) 771-4204	No.	C	SAMPLE TYPE	Preservatives Used	Analysis Method Required	REMARKS	
PROJECT NAME:	WTC B		PROJECT NO.:	1462309	O	C = COMP	(3) PCP Methods	Cf. Chain is identified above	Residential Clean up	Standard sample should be analyzed for fire char	
SITE LOCATION:	Port Deposit		P.O. NO.:		N	A					E
SAMPLERS:											
2	LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX (See Codes)						
41	AOC-35-23 *	5/17/10	1400	S		X					
42	AOC-35-24 *					X					
43	AOC-35-25 *				1315		X				
44	AOC-35-26 *				1500		X				
45	AOC-35-27 *				1515		X				
46	Duf-AOC-35-05 *				5/17/10	-		X			
47	Duf-AOC-35-06 *							X			
3	Relinquished By: (1)	Date	Time	Received By:							
	(4) (b)	5/20	11:58A								
4	Relinquished By: (2)	Date	Time	Received By:	Requested Turnaround Time	# of Coolers:	4				
	(4) (b)	5/20	2:00		<input type="checkbox"/> 5-Day	<input type="checkbox"/> 3-Day	<input checked="" type="checkbox"/> Next Day	<input type="checkbox"/> 2-Day	<input type="checkbox"/> Emergency	<input type="checkbox"/> Other	
5	Relinquished By: (3)	Date	Time	Received By:							
	(4) (b)										
Relinquished By: (4)	Date	Time	Received By:								

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Phase Separation Science, Inc

Sample Receipt Checklist

Wo Number	10052015	Received By	(b) (4)
Client Name	ARGO Systems	Date Received	05/20/2010 02:00:00 PM
Project Name	NTCB	Delivered By	Dial Courier
Project Number	1462309	Tracking No	Not Applicable
Disposal Date:	06/24/2010	Logged In By	(b) (4)

Shipping Container(s)

No. of Coolers	4	Ice	Present
Custody Seals	Absent	Temp (deg C)	2
Seal Condition	Absent	Temp Blank	Present No

Documentation

COC agrees with sample labels? Yes or No Sampler Name: (b) (4)
Chain of Custody (COC) Yes or No MD DW Cert No.: N/A

Sample Container

Appropriate for Specified Analysis?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Custody Seal(s)	Absent
Intact?	<input checked="" type="checkbox"/> —	Custody Seal(s) Intact?	Not Applicable
Labeled and Labels Legible	<input checked="" type="checkbox"/> —	Seal(s) Signed / Dated	Not Applicable
Total No. of Samples Received	47	Total No. of Containers Received	177

Preservation

		Yes	No	N/A
Metals	(pH<2)	—	—	<input checked="" type="checkbox"/>
Cyanides	(pH>12)	—	—	<input checked="" type="checkbox"/>
Sulfide	(pH>9)	—	—	<input checked="" type="checkbox"/>
TOC, COD, Phenols	(pH<2)	—	—	<input checked="" type="checkbox"/>
TOX, TKN, NH3, Total Phos	(pH<2)	—	—	<input checked="" type="checkbox"/>
VOC, BTEX (VOA Vials Rcvd Preserved)	(pH<2)	—	—	<input checked="" type="checkbox"/>
Do VOA vials have zero headspace?		—	—	<input checked="" type="checkbox"/>

Comments: (Any "No" response must be detailed in the comments section below.)

For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling.

Samples Inspected/Checklist Completed By: (b) (4)

Date:

5/21/10

Date:

5/21/10

PM Review and Approval: (b) (4)